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$C_6H_{13}OBr$ α-Bromoethylbutylether, preparation, properties, 1371.
$C_6H_{13}O_3N$ N-propanol-2-ethoxy-3-formamide, preparation, properties, 2138.
$C_6H_{15}O_2$ 1) β-Ethyl-β,β'-dihydroxyethylamine, preparation, properties, dehydration, 681; 2) α,β'-Dimethyl-β,β, dihydroxydiethylamine, preparation, properties, dehydration, 681.
$C_6H_{15}O_3P$. Triethyl phosphite, action on 2-methyl-2-chlorobutine-3, 100.

6 IV

$C_6H_3O_2N_3S$ β-Nitropiazothile, preparation, properties, reduction, 1984.
$C_6H_3N_2ClBr_2$ 2-Chloro-1,4-benzoquinonedibromodiimide, preparation, properties, 1920.
C_6H_4ONBr 1,4-Benzoquinonebromimide, preparation, properties, 1919.
$C_6H_5O_2ClS$ Benzene sulfonylchloride, preparation, 1883.
$C_6H_5O_3ClS$ 1) p-Chlorobenzene sulfonic acid, hydrolysis, 1087; 2) acid chloride of sulfosalicylic acid, preparation, 1886.
$C_6H_7ONS_2$ Isopropylidene rhodanine, preparation, cleavage, 1688.
$C_6H_{11}O_2NS_2$ S-Thioallylcysteine, preparation, reduction, 1768.

6 V

$C_6H_3O_6NS_2Cl_2$ m-Benzene-disulfonyl chloride, preparation, 1887.
$C_6H_4O_4NSCl$ m-Nitrobenzenesulfonyl chloride, preparation, 1887.

Group C_7

7 I

C_7H_8 Toluene, solubility of d-camphor in, 319; viscosity of system with methyl alcohol, 1481; condensation with halogen derivatives and with alcohols, 487; benzylation, 2251.
C_7H_{12} 1) Methyl-tert-butylacetylene, preparation, oxidation, combined light scattering spectrum, 1633; 2) methyl-Δ'-dicyclohexene, condensation with trichloracetic acid, 2236; 3) 2,4-dimethylcyclopentene-1, preparation, hydrogenation, 1564; 4) vinylcyclopentane, synthesis, properties, combined light scattering spectrum, 505; 5) product of dehydration of methylethylallyl carbinol, 440.
C_7H_{14} 1) Heptene-1, behavior on vanadium catalyst, 1133; 2) heptene-3, synthesis, behavior on vanadium catalyst, 1133; 3) 1,2-dimethylcyclopentane, preparation, 1260; 4) 1,3-dimethylcyclopentane, preparation, 1260, 1561.

7 II

C_7H_5N Benzonitrile, preparation, 304.
$C_7H_8O_2$ 1) Benzoic acid, electrolytic reduction, 873; interaction with p-ditolylmercury, 347; rate of saponification of esters of, 2149; 2) 1,3-dimethyl-Δ'-cyclopentene-4,5-dione, preparation, 2,4-dinitrophenylhydrazone, condensation, 705; 3) furylacrolein, synthesis, properties, 663; condensation with methyl ketones, 1131; 4) furylacrylic acid, cleavage, 671.
$C_7H_8O_3$ 1) 2,5-Dihydroxybenzaldeyhyde,

synthesis, 384; 2) o-hydroxybenzoic acid, interaction with o- and p-ditolyl mercury, 347.
C_7H_7Cl Benzyl chloride, photoreaction with diphenylmercury, 180.
C_7H_7I Benzyl iodide, photoreaction, with organic Hg compounds, 181.
C_7H_8O 1) Cresols, mercuration, 2172; 2) anisole, condensation with vinyl ethyl ether, 332; benzylation, 2252; 3) benzyl alcohol, benzylation of aromatic hydrocarbons with, 2249; condensation with phenols, 2239; 4) 1,5-heptadiene-3-ine-7-ol, preparation, properties, hydrogenation, 1151; 5) 1,6-heptadiene-3-ine-5-ol, preparation, properties, hydrogenation, isomerization, 1151.
$C_7H_8O_2$ Furyl allyl alcohol, preparation, properties, acetate, 663.
C_7H_8S p-Thiocresol, reaction with organo-metallic compounds, 2167.
C_7H_9N 1) Benzylamine, reaction with urea derivatives, 963; 2) o-toluidine, condensation with 1,2-propylene glycol and acetone, 492; 3) p-toluidine, condensation with 1,2-propylene glycol and acetone, 492.
$C_7H_{10}O$ 1) 1,3,5-Heptatriene-7-ol, preparation, properties, hydrogenation, 1152; 2) 1,3,6-heptatriene-5-ol, preparation, properties, isomerization, 1152; 3) 2,4-dimethyl cyclopenten-2-one-1, preparation, hydrogenation, 1562.
$C_7H_{10}O_5$ 1) γ-keto pimelic acid, ester of, 671; 2) acid ester of acetaldol and malonic acid, preparation, 465.
$C_7H_{10}N_2$ 2-Dimethylaminopyridine, preparation, reaction with formaldehyde, 1232.
$C_7H_{12}O_2$ 1) Lactone of γ-methyl-γ-hydroxycaproic acid, formation, properties, conversion to salt and amide, 901; 2) β-methyl cyclohexanone, oxidation, 1257; 3) ethyl ether of dimethylacetylenylcarbinol, preparation, properties, condensation, 762; 4) methoxy-methyl ether of dimethylacetylenylcarbinol, preparation, properties, electrolytic hydrogenation, 876.
$C_7H_{12}O_7$ Methyl ether of 2-keto-l-gulonic acid, preparation, properties, 2142.
$C_7H_{14}O$ 1) Methylethylallylcarbinol, synthesis, action of sulfuric acid on, 437; 2) 3-methyl-hexene-3-ol-6, formation, properties, oxidation, 440; 3) methylethylcyclopropylcarbinol, preparation, reaction with formic acid, 900; 4) 2,4-dimethylcyclopentanol-1, preparation, dehydration, 1564; 5) n-dipropylketone, condensation with acetone, 292; 6) di-isopropyl ketone, condensation with acetone, 292; 7) vinylisoamyl ether, synthesis, properties, 2132; 8) α-propylfuranidine, conversion to α-propylpyrrolidine, 175; 9) β-propylfuranidine, conversion to β-propylpyrrolidine, 174; 10) γ-oxide of 1-methyl-1-ethyl tetramethylene (4-methyl-4-ethyl-tetrahydrofuran) formation, oxidation, 891.
$C_7H_{14}O_2$ Methoxymethyl ether of dimethylvinylcarbinol, preparation, properties, 880.
$C_7H_{15}N$ 1) l-2,6-Dimethylpiperidine, isolation from the plant Nanophyton Erinaceum, 1587; 2) α-propylpyrrolidine, formation from α-propyl furanidine, 175; 3) β-propylpyrrolidine, formation from β-propyl furanidine, 174.
$C_7H_{16}O$ Heptanol-4, preparation, acetate, 1134.

7 III

$C_7H_4O_2N_2$ 1) p-Nitrobenzonitrile, preparation, 306; 2) m-nitrobenzonitrile, preparation, 305.
C_7H_4NCl 1) o-Chlorobenzonitrile, preparation, 306; 2) p-chlorobenzonitrile, preparation, 306.
C_7H_5OCl 1) Benzoyl chloride, condensation with 2-amino pyridine, 199; 2) o-chlorobenzaldehyde, condensation with malonic anhydride, 464; 3) m-chlorobenzaldehyde, condensation with malonic anhydride, 465; 4) p-chlorobenzaldehyde, condensation with malonic anhydride, 464.
$C_7H_5O_6S$ Sulfosalicylic acid, hydrolysis, 1087.
$C_7H_6N_2Br_2$ 2,5-Toluoquinonedibromodiimide, 1921.
C_7H_7ON Benzamide, internal friction

in system with iodine chloride, 407.

$C_7H_7O_2N$ 1) o-Nitrotoluene, system with nicotine, 1629; 2) p-nitrotoluene, system with nicotine, 1629; 3) o,m,p-aminobenzoic acid interaction with potassium chloroplatinate, 261.

$C_7H_8N_4S_2$ 3,7-dimethyl-2,6-dithiopurine, synthesis, properties, methylation, 1293.

$C_7H_9ON_3$ β-phenyl semicarbazide, synthesis, absorption spectrum, 514.

$C_7H_{10}ON_2$ 2,5-Diaminoanisole, preparation, properties, 1921.

$C_7H_{12}OS$ 1) 2,2-Dimethyl-tetrahydro-1-thiopyran-4-one, condensation with magnesium vinyl acetylene bromide, reaction with butyl magnesium chloride, 402; 2) 2,5-dimethyl-tetrahydro-1-thiopyrane-4-one, condensation with magnesium vinyl acetylene bromide, reaction with butyl magnesium chloride, 403.

$C_7H_{13}OCl$ 1) 1-Ethoxy-3-chloropentene-4, reaction with sodium hydrosulfite, 888; 2) 1-ethoxy-5-chloropentene-3, reaction with sodium hydrosulfide, 889.

$C_7H_{13}O_3P$ 2-Methyl-4-dimethylphosphonebutadiene-2,3, formation, 103.

$C_7H_{14}OS$ 1-Ethoxypentene-3-thiol-5, preparation, properties, conversion to thioether, oxidation, 888.

$C_7H_{15}ON$ 2-Ethyl-5-methylmorpholine, preparation, properties phenyl thiourea derivatives, 682.

$C_7H_{16}Cl_2Sn$ 4-Propyl-n-butyl-dichloro-tin, preparation, 2077.

$C_7H_{17}O_2N$ α-Methyl-β,β'-dihydroxydiethylamine, preparation, properties, dehydration, picrate, 680.

7 IV

$C_7H_6ON_2Br_2$ 2-Methoxy-1,4-benzoquinonedibromdiimide, preparation, properties, 1920.

$C_7H_6O_2Cl_2S$ 2-Chlorotoluene-4-sulfonyl chloride, preparation, 1885.

$C_7H_6NFS_2$ 2-Methylmercapto-6-fluorobenzthiazole, preparation, properties, absorption maximum, ethyl iodide, conversion to thiocyanine, 2190.

C_7H_7OSBi Product of reaction of p-thiocresol with triphenyl bismuth, 2168.

$C_7H_7O_2ClS$ p-Toluenesulfonyl chloride, preparation, 1884.

$C_7H_{10}O_2N_2S$ N-(4-methylthiazolyl-2)-urethane, preparation, properties, 958.

$C_7H_{15}O_3SK$ Isomeric alkyl sulfonates, synthesis, properties, surface tension, 2165.

Group C_8

8 I

C_8H_8 Styrene, polarographic study, 57; sulfonation, 1941.

C_8H_{10} 1) Ethyl benzene, formation, 488; preparation, 471; 2) m-xylene, viscosity of system with methyl alcohol, 1481; benzylation, 2251; 3) xylene, solubility of oxygen in, 67.

C_8H_{12} 1,3,5-octatriene, formation, properties, 1154.

C_8H_{14} 1) Diisobutenyl (2,5-dimethyl-1,5-hexadiene) contact isomerization, 727; diisocrotyl (2,5-dimethyl-2,4-hexadiene) preparation, partial reduction, 727.

C_8H_{16} 1) 2,5-Dimethyl-2-hexene, formation, properties, ozonation, combination dispersion spectrum, 727; 2) 2,5-dimethyl-3-hexene, preparation, properties, bromination, combination dispersion spectrum, structure, 445.

C_8H_{18} 2,2,4-trimethylpentane, aromatization on Mo catalyst, 2329.

8 II

$C_8H_4O_3$ Phthalic anhydride, conversion to chlorophthalic anhydride, 501.

C_8H_7N Nitrile of phenylacetic acid, preparation, 306.

C_8H_8O Acetophenol, synthesis with nicotine, 2203; condensation with acetomalonic anhydride, 463; reactivity, 2299.

$C_8H_8O_2$ 1-(α-furfurylidene)-propanal, condensation with ketones, 1127.

$C_8H_8O_3$ 2-Hydroxy-5-methoxybenzalde-

hyde, synthesis, 385.
$C_8H_{10}O$ 1) 1,6-Octadiene-3-ine-5-ol, preparation, hydrogenation, 1153; 2) phenylmethylcarbinol, reaction with toluene and xylene, 2252.
$C_8H_{10}O_5$ 1) Aldehydo-acid, product of hydrolysis of 1-butyoxycyclopropane-2-carboxylic acid, 2109, 2119; 2) acid, product of hydrolysis of an ester of 1-acetoxycyclopropanone-2-carboxylic acid, 2393.
$C_8H_{11}N$ 1) Ethylaniline, system with pyridine and quinoline, 1175; 2) dimethylaniline, azo derivative, 299; 3) nitrile of 2-methyl-Δ^3-cyclohexenecarboxylic acid, preparation, alcoholysis, dehydrogenation, 79.
$C_8H_{12}O$ 1) 1,3,5-Octatriene-7-ol, preparation, properties, hydrogenation, isomerization, 1154; 2) 1,3,6-octatriene-5-ol, preparation, properties, hydrogenation, isomerization, 1152; 3) 2,4,6-octatriene-1-ol, preparation, properties, hydrogenation, 1154; 4) isopropylvinylethynyl carbinol synthesis, hydration, 2264; 5) 2-methyl-Δ^3-cyclo hexene-aldehyde, preparation, oxidation, 80.
$C_8H_{12}O_2$ 2-Methyl-Δ^3-cyclo hexene carboxylic acid, preparation, properties, ethyl ester, nitrile, amide, silver salt, ozonation, 79, 83.
$C_8H_{12}O_3$ Ethylideneacetoacetic ester, condensation with piperylene, 76.
$C_8H_{12}O_4$ Ethyl ester of 1-acetoxy cyclopropane-2-carboxylic acid, preparation, properties, conversion, 2385.
$C_8H_{14}O$ 3-Methyl-3-hepten-5-one, preparation, reaction with methyl magnesium iodide, 905.
$C_8H_{14}O_2$ 1) Tetramethylbutynediol, condensation with phenol, 923; attempt at acetylation of, 1124; incomplete ethers, 757; 2) methoxy methyl ether of methylethylacetylenylcarbinol, preparation, properties, electrolytic hydrogenation, 879; 3) ethoxy methyl ether of dimethylacetylenylcarbinol, preparation, properties, electrolytic hydrogenation, 871; 4) 1-methoxy-5-methyl-4-hexen-3-one, oxidation with ketoxides, 2267; 5) 2-methyl 5-isopropyltetrahydro-4-furanone, preparation, properties, semicarbazone, 2265; 6) 2-isopropyltetrahydro-4-pyrrone, preparation, properties, semicarbazone, 2265.
$C_8H_{14}O_3$ 1) α,β,β,-Trimethyllevulinic acid, preparation, oxidation, 1908; 2) 1-butoxycyclopropane-2-carboxylic acid, hydrolysis of its esters, 2109, 2119; 3) α-ketoxide, product of oxidation of 1-methoxy-5-methyl-4-hexen-3-one, preparation, properties, conversion, 2270.
$C_8H_{14}O_5$ Diacetate of diethylene glycol, preparation, 1122.
$C_8H_{14}N_4$ NN'-di-(β-cyanoethyl)-ethylene diamine, preparation, properties, 2142.
$C_8H_{15}N$ Nitrile of caprylic acid, preparation, 305.
$C_8H_{16}O$ β-Butyl furanidine, conversion to β-butylpyrrolidine, 175.
$C_8H_{16}O_2$ 1) Methoxy methyl ether of methylethylvinylcarbinol, preparation, properties, 882; 2) ethoxy methyl ether of dimethylvinylcarbinol, preparation, properties, 880.
$C_8H_{16}O_3$ 1) α-Ethoxy-n-caproic acid, preparation, properties, 1954; 2) α-ethoxyisocaproic acid, preparation, properties, 1955.
$C_8H_{16}O_4$ 1-Methoxy-5-methylhexan-4,5-diol-3-one, preparation, properties, oxidation, diacetate, 2271.
$C_8H_{16}Br_2$ 2,5-Dimethyl-3,4-dibromohexane, preparation, properties, 445.
$C_8H_{17}N$ 1) β-Butylpyrrolidine, formation from β-butylfuranidine, properties, 175; 2) l-1,2,6-trimethylpiperidine, isolation from the plant Nanophyton erinaceum, 1587.
$C_8H_{18}S$ Octylmercaptan, heating, 888.
$C_8H_{19}N$ Dibutylamine, behavior to oxidizing agents, 355.
$C_8H_{20}Pb$ Tetra ethyl lead, action of $BiCl_3$ on, 2075.
$C_8H_{20}Si$ Tetra ethyl silicon, action of $BiCl_3$ on, 2075.
$C_8H_{20}Sn$ Tetra ethyl tin, action of $BiCl_3$ on, 2075.

8 III

$C_8H_3O_3Cl$ 1) 3-Chlorophthalic anhydride, preparation, 503; 2) 4-chlorophthalic anhydride, preparation, 503.

$C_8H_3O_5N$ 1) 3-Nitrophthalic anhydride, preparation, conversion to phthalic acid chloride, 503; 2) 4-nitrophthalic anhydride, preparation, 503.

$C_8H_4O_4Cl_2$ 3,5-Dichlorophthalic acid, synthesis, 1911.

C_8H_7OBr ω-Bromoacetophenone, reaction with methylene base of the thiazole series, 1971.

$C_8H_8O_2Hg$ 1) o-Ditolyl mercuryformate, preparation, properties, 346; 2) p-ditolyl mercuryformate, preparation, properties, 346; 3) phenyl mercury acetate, reaction with phenols, 2171.

$C_8H_8O_3S$ ω-Styrene sulfonic acid, preparation, properties, salts, derivatives, reaction with bromine, 1943.

$C_8H_8N_2S$ 3-Methylbenzothiazolonimine, preparation, 1978.

C_8H_9ON Acetanilide, alkylation, 1487.

C_8H_9OCl α-Chloroethyl phenyl ether, synthesis, properties, 1381.

C_8H_9OBr α-Bromoethyl phenyl ether, synthesis, properties, 1382; activation of vinyl alkyl ethers, 652.

$C_8H_{10}ON_2$ 1) α-Acetylphenylhydrazine, synthesis, absorption spectrum, 1729; 2) β-acetylphenylhydrazine, synthesis, absorption spectrum, 1729, 3) 4-nitrosodimethylaniline, azo compounds, 299.

$C_8H_{10}O_2N_4$ 4-Nitrodimethylaniline, azo compounds, 299.

$C_8H_{10}NCl$ 4-Chlorodimethylaniline, azo compounds, 299.

$C_8H_{10}NBr$ 4-Bromodimethylaniline, azo compounds, 299.

$C_8H_{10}NI$ 4-Iododimethylaniline, azo compounds, 299.

$C_8H_{11}ON$ 4-Hydroxydimethylaniline, azo compounds, 299.

$C_8H_{11}ON_3$ β-(m-tolyl)-semicarbazide, synthesis, absorption spectrum, 514.

$C_8H_{14}OS$ 2,3,6-trimethyl-tetrahydrothiopyran-4-one, condensation with vinyl acetyl magnesium bromide, 404.

$C_8H_{14}O_4S$ Thiodiglycol diacetate, preparation, 1123.

$C_8H_{17}ON$ 2,6-Diethylmorpholine, preparation, properties, phenyl thiourea, derivatives, 683.

$C_8H_{19}O_2N$ β,β',-Diethyl-β,β'-dihydroxy diethylamine, preparation, properties, dehydration, picrate, 683.

8 IV

C_8H_5ONS Benzothiazole-2-carboxylic acid, simpler derivatives, amino alkyl ethers, 1235.

$C_8H_5O_2NS$ Benzothiazole-6-carboxylic acid, simpler derivatives, amino alkyl ethers, 1235.

C_8H_6NFS 2-Methyl-6-fluorobenzothiazole, preparation, properties, absorption maximum, conversion to thiocyanines, 2189.

$C_8H_9O_2Cl_2P$ Di-acid chloride of β-phenoxyethylphosphorous acid, preparation, 110.

$C_8H_{11}O_3NS$ 4-Dimethylaniline-4-sulfo acid, azo compounds, 300.

$C_8H_{17}O_3SK$ Isomeric alkyl sulfonates, synthesis, properties, surface tension, 2165.

Group C_9

9 I

C_9H_{12} 1) Propyl benzene, formation, 481; 2) iso-propyl benzene, formation, 488; 3) ethyl toluene, formation, 487; 4) mesitylene, viscosity of system with alcohols, 1481; 5) cumene, benzylation, 2251.

C_9H_{14} Xanthene, action of Cl on, 1037.

C_9H_{16} Mixture of 3,5-dimethyl-2,4-heptadiene and 4-methyl-2-ethyl-1,3-hexadiene, preparation, reaction with HBr, 904.

C_9H_{18} 1-Methyl-3-propyl-cyclopentane, preparation, properties, 1257.

C_9H_{20} 5,6-Dimethyl-1,5-heptadien-3-ine, preparation, properties, hydration, 1906.

9 II

C_9H_7N Quinoline, system with ethyl aniline, 1175; interaction with cobalt-halogen complexes, 2005.

C_9H_8O Cinnamaldehyde, condensation with malonic acid, 627; diacetate, 630.

$C_9H_8O_2$ 1) Cinnamic acid, formation, 635; reaction of its esters with Mg organic compounds, 2323; action of NO_2 on ethyl ester, 1283; 2) α-furylvinylethylnylcarbinol, preparation,

properties, hydrogenation, 1166; 3) furylpentadieneal, condensation with ketones, 1127.

$C_9H_8N_2$ 6-Aminoquinoline, hydrogenation condensation with urea, 959.

$C_9H_{10}O$ 1) Hydrocinnamic aldehyde, condensation with malonic anhydride, 461; 2) α-furylbutadienylcarbinol, formation, properties, hydrogenation, 1166; 3) allyl phenyl ester, mechanism of Claissen rearrangement in, 1965; 4) allyl-3,5-dideuterophenyl ether, preparation, use for study of the mechanism of the Claissen rearrangement, 1965; 5) anole (p-propenyl phenol) estrogenic activity and of its polymers, 2279.

$C_9H_{10}O_3$ 1) 2,5-dimethoxybenzaldehyde, synthesis, 384; 2) acetyl ether of furyl allyl alcohol, preparation, properties, 668.

$C_9H_{10}N_2$ 4-Cyanodimethylaniline, azo compounds, 299.

$C_9H_{12}O$ Dimethylphenylcarbinol, dehydration, 2253.

$C_9H_{12}O_4$ Acid malonic ester of the enolic form of mesityl oxide, preparation, 466.

$C_9H_{12}O_6$ Acid ester of the enolic form of acetoacetic acid, preparation, 466.

$C_9H_{12}N_2$ 6-Amino-1,2,3,4-tetrahydroquinoline, condensation with urea, 959.

$C_9H_{13}N$ 1) 4-Methyldimethylaniline, azo compounds, 299; 2) nitrile of 2,5-dimethyl-Δ^3-cyclohexene carboxylic acid, preparation, saponification and dehydrogenation, 973.

$C_9H_{13}Cl$ Xanthene chloride, preparation, properties structure, 1041.

$C_9H_{14}O$ 1) Methylisopropylvinylethinyl carbonyl, preparation, properties, hydrogenation, dehydration, hydration, 1905; 2) 5,6-dimethyl-1,5-heptadiene-4-one, preparation, properties, cyclization, 1906; 3) 1,2,2,3-tetramethyl-Δ^3-cyclopenten-5-one, preparation, properties, hydrogenation, derivatives, 1906.

$C_9H_{14}O_2$ 1) 2,6-Dimethyl-Δ^3-cyclohexene carboxylic acid, preparation, dehydrogenation, 81; 2) n-butylfuryl carbinol, synthesis, properties, isomerization, 1952; 3) iso-butylfuryl carbinol, preparation, properties, isomerization, 1952.

$C_9H_{14}O_3$ Ethyl ester of 2-methyl-5,6-dihydropyran-3-carboxylic acid, preparation, 1949.

$C_9H_{14}O_4$ 1) 1-Methylhexahydrophthalic acid, preparation, 2086; 2) ethylidene malonic ester, condensation with piperylene, 81.

$C_9H_{14}O_5$ 1) Dimethyl ester of γ-ketopimelic acid, preparation, properties, 671; 2) diacetone alcohol ester of malonic acid, preparation, 465; 3) acid ester of propionic aldehyde and malonic acid, preparation, 466.

$C_9H_{15}Cl$ 2,2,3-Trimethyl-3-chlorohexyne-4, preparation, oxidation, action of Ag acetate on, 2099.

$C_9H_{16}O$ 1) Methyl-tert-butyl-methylethynyl-carbinol, preparation, reaction with HCl, acetate, 2099; 2) 1,2,2,3-tetramethylcyclopentan-5-one, preparation, properties, derivatives, 1907.

$C_9H_{16}O_2$ 1) Isopropoxy methyl ether of dimethylacetylenylcarbinol, preparation, properties, electrolytic hydrogenation, 877; 2) ethoxy methyl ether of methylethylacetylenylcarbinol, preparation, properties, electrolytic hydrogenation, 879; 3) α-cyclopentylethyl acetate, preparation, properties, pyrolysis, 508; 4) β-cyclopentylethyl acetate, preparation, properties, pyrolysis, 508.

$C_9H_{16}O_3$ 1) 4-Ketononanoic acid, preparation, properties, ethyl ester, 1953; 2) 7-methyl-4-ketooctanoic acid, preparation, properties, ethyl ester, 1953.

$C_9H_{17}Br$ 5-Bromo-3,5-dimethyl-3 heptene, preparation, properties, reaction with organic Mg compounds, 906.

$C_9H_{18}O$ 1) Vinyl-heptyl ether, synthesis, properties, 2133; 2) alcohol, product of reaction of 3-methyl-3-hepten-5-one with methylmagnesium iodide, 905.

$C_9H_{18}O_2$ 1) Isopropoxy methyl ether of dimethylvinylcarbinol, preparation, properties, 881; 2) ethoxy methyl ether of methylethylvinylcarbinol, synthesis, properties, 882; 3) heptanol-4 acetate, preparation, properties, pyrolysis, 1134.

$C_9H_{20}O$ Methylisopropylbutylcarbinol, preparation, properties, 1905.
$C_9H_{22}N_2$ Diethylamino-4-aminopentane, behavior with oxidants, 351.

9 III

C_9H_7ON Indole-3-aldehyde, condensation, 2287.
$C_9H_8O_4Hg$ 1) o-Tolylmercury oxalate, preparation, properties 347; 2) p-tolylmercury oxalate, preparation, properties, 347.
C_9H_9OCl α-Chlorobenzylmethylketone, preparation, properties, reaction with potassium benzoate, 1336.
C_9H_9NS 3-Methyl-2-methyl benzothiazole, reaction with methyl iodide and ethyl iodide, 149.
$C_9H_{10}O_2Hg$ o-Tolyl mercury acetate, preparation, properties, 346.
$C_9H_{11}ON$ 4-Dimethylaminobenzaldehyde, azo compound, 299.
$C_9H_{11}OCl$ α-Chloroethylanisole, formation, 332.
$C_9H_{11}O_2N$ 4-Dimethylaminobenzoic acid, azo compound, 299.
$C_9H_{11}O_4N$ d,l-2,5-Dihydroxyphenylalanine, synthesis, properties, 383.
$C_9H_{12}ON_2$ 1) β,β-Methylacetylphenyl hydrazine, synthesis, absorption spectrum, 515; 2) 4-dimethylamino benzamide, azo compound, 295; 3) 4-dimethylamino benzaldoxime, azo compound, 295.
$C_9H_{13}ON$ 4-Dimethyl amino benzyl alcohol azo compound, 295.
$C_9H_{13}O_2P$ 1) Methyl ester of p-tolylmethylphosphinic acid, preparation, properties, 1210; 2) methyl ester of p-tolylphosphinous acid, preparation, isomerization, 1210.
$C_9H_{14}ON_2$ 1) 3-Hydroxy-6-n-amylpyridazine, preparation, properties, 1726; 2) 3-hydroxy-6-isoamylpyridazine, preparation, properties, 1727.
$C_9H_{15}O_3Br$ γ-Bromopropylacetoacetic ester, preparation, 1949.
$C_9H_{16}ON_2$ 1) 3-Hydroxy-6-n-amyl-4,5-dihydropyridazine, preparation, properties, dehydrogenation, 1726; 2) 3-hydroxy-6-isoamyl-4,5-dihydropyridazine, preparation, properties, dehydrogenation, 1727.
$C_9H_{17}OCl$ 1) 1-Butoxy-5-chloropentene-3, reaction with potassium hydrosulfide, 889; 2) 1-butoxy-3-chloropentene-4, reaction with potassium hydrosulfide, 889.
$C_9H_{17}O_3P$ 2-Methyl-4-diethylphosphonebutadiene-2,3, formation, properties, dimerization, reaction with triethylphosphite, 100.
$C_9H_{18}OS$ 1-Butoxypentene-3-thiol-5, preparation, properties, conversion to thio ether, 889.
$C_9H_{19}O_5N$ N,N-Di-(propanol-2-methoxy-2)-formamide, preparation, properties, 2137.

9 IV

$C_9H_7ON_2Cl$ 1,2-(3'-Chlorodivinylene)-6-methylpyramidone-4, preparation, properties, 1963.
$C_9H_7ON_2Br$ 1,2-(3'-Bromodivinylene)-6-methylpyramidone-4, preparation, properties, 1963.
$C_9H_7ON_2I$ 1,2-(3'-Iododivinylene)-6-methylpyramidone-4, preparation, properties, 1962.
$C_9H_8O_2NCl$ Hippuryl chloride, reaction with hydroxy acids, 1104.
$C_9H_8O_2N_2S$ 3-Methyl-6-nitro-2-methylenebenzthiazoline, preparation, properties, reaction with methyl iodide, 159.
C_9H_9ONS 4-Methyl-3-oxo-dihydro-(benzo-1,4-thiazine), preparation, 1978.
$C_9H_7O_2N_2Cl$ 5-Chloro-2-acetoacetylaminopyridine, preparation, properties, reaction with 5-chloro-2-aminopyridine, action of H_2SO_4 on, 1963.
$C_9H_9O_2N_2Br$ 5-Bromo-2-acetoacetylaminopyridine, preparation, properties, reaction with 5-bromo-2-aminopyridine, action of H_2SO_4 on, 1963.
$C_9H_9O_2N_2I$ 5-Iodo-2-acetoacetylaminopyridine, preparation, reaction with 5-iodo-2-aminopyridine, action of H_2SO_4 on, 1962.
$C_9H_{10}ON_4S_2$ N,N'-Di-(4-methylthioazolyl-2)-urea, preparation, properties, reaction with dimethyl sulfate, 957; interaction with amines, 966.
$C_9H_{10}O_2Cl_3P$ Methyl ester of trichloromethyl-p-tolylphosphinic acid, preparation, properties, 1210.
$C_9H_{11}O_2NS$ Anilide of allylsulfonic acid, preparation, properties, 1766.
$C_9H_{19}O_3SK(Na)$ Isomeric alkyl sulfonates, synthesis, properties, surface tension, 2164.

Group C_{10}

10 I

$C_{10}H_8$ Naphthalene, electrolytic reduction, 870; condensation with halogen derivatives, 480.

$C_{10}H_{10}$ α-Phenylbutadiene, sulfonation, 1941.

$C_{10}H_{14}$ 1) n-Butyl benzene, formation, 331; 2) tert-butyl benzene, action of sulfur on, 1263; 3) butyl benzene, formation, 479, 486; 4) p-cymene, viscosity of system with methyl alcohol, 1483; 5) diethyl benzenes, formation, 471.

$C_{10}H_{16}$ 1) α-Pinene, reaction with chlorine, 931; 2) β-pinene, reaction with chlorine, 931; 3) Δ^3-carene, reaction with chlorine, 1043; 4) dipentene, reaction with chlorine, 941; 5) terpinolene, reaction with chlorine, 1037.

$C_{10}H_{20}$ 1) 3,6-Dimethyl-4-octene, preparation, properties, oxidative bromination, combination dispersion spectrum, structure, 446; 2) 3,5,5-trimethyl-3-heptene, preparation, properties, hydrogenation, oxide, 907.

$C_{10}H_{22}$ 3,5,5-Trimethyl-3-heptane, preparation, properties, 908.

10 II

$C_{10}H_6O_2$ 1,4-Naphthoquinone, bisulfite compound, 2195.

$C_{10}H_8O$ Naphthol, effect on rate of soap formation, 273.

$C_{10}H_8O_4$ β-Lactone of benzylmalonic acid, decarboxylation, 635.

$C_{10}H_{10}O$ Benzalacetone, condensation with malonic anhydride, 467.

$C_{10}H_{12}O$ 1) α,γ-Methylphenylallyl alcohol, formation, properties, 432; 2) methylphenylvinyl carbinol, action of H_2SO_4 on, 431; 3) anethole, demethylation, 2282.

$C_{10}H_{12}O_2$ Dimethylphenylacetic acid, synthesis, properties, 621.

$C_{10}H_{14}O$ Butyl phenols, formation, 487.

$C_{10}H_{14}O_2$ Ethyl phenyl acetal, synthesis, thermal decomposition, 651.

$C_{10}H_{14}O_3$ 1) 1-(4-Hydroxy-3-methoxyphenyl)-propanol-1, synthesis, derivatives, 1250; 2) 1-(4-hydroxy-3-methoxyphenyl)-propanol-2, isolation, properties, identification, 1247; 3) dihydroconiferyl alcohol, synthesis, properties, derivatives, oxidation, 1249.

$C_{10}H_{14}O_4$ 2,6-Dimethyl-Δ^3-cyclohexene-1,1-dicarboxylic acid, preparation, ethyl ester, decarboxylation, 81.

$C_{10}H_{14}N_2$ 1) Anabasine, system with formic acid, 809; 2) nicotine, synthesis with formic acid, 809; systems with dichloroethane, chlorobenzene, bromobenzene, carbon tetrachloride, 2199; systems with acetone, methylethyl ketone, and acetophenone, 2203; systems with nitrobenzene, o-nitrophenol, o-nitrotoluene and p-nitrotoluene, 1629.

$C_{10}H_{15}Cl$ 1) Myrtenyl chloride, formation, 931; 2) 3-chloro-Δ^4-carene, preparation, properties, structure, 1043; 3) carveol chloride, preparation, properties, conversion to carveol, 941; 4) pinocarveol chloride, formation, isomerization, 931; 5) terpinolene chloride, preparation, properties, structure, 1037.

$C_{10}H_{18}O$ 1) 2,6-Dimethyl-1-acetyl-Δ^3-cyclohexene, preparation, properties, semicarbazone, 83; 2) d,l-carveol, preparation from dipentene, 943; 3) d-camphor, solubility in organic solvents, 319.

$C_{10}H_{18}O_2$ 2,5,6-Trimethyl-Δ^3-cyclohexene-1-carboxylic acid, preparation, diethyl ester, semicarbazone, 972.

$C_{10}H_{18}O_3$ 2-Methyl-2-acetylcyclohexane carboxylic acid, preparation, oxidation, semicarbazone, 2084.

$C_{10}H_{16}Cl_2$ 1) 2,6-Dichlorocamphane (Aschan's), formation, 933; 2) carene dichloride, preparation, properties, 1046.

$C_{10}H_{18}O$ 1) Menthone, condensation with malonic anhydride, 463; oxidation by potassium permanganate, 639; 2) isoamyl ether of dimethylacetylenylcarbinol, preparation, properties, 762; 3) linalool, dehydration, 2252.

$C_{10}H_{18}O_2$ 1) 5,6-Dimethyl-2-methoxy-5-hepten-4-one, preparation, properties, behavior with methanol, 1906. 2) butoxymethylether of dimethylacetylenylcarbinol, preparation, properties, 878; electrolytic hydrogenation, 880; 3) monoethyl ether of tetramethylbutynediol, preparation, properties,

hydrogenation, action of alkalies on, 757.
$C_{10}H_{18}O_8$ Triethylene glycol, diacetate, preparation, 1124.
$C_{10}H_{18}O_9$ 1) Glucosido-2-erythrose, preparation, oxidation, derivatives, 122, 311; 2) galactosido-2-erythrose, preparation, oxidation, 126.
$C_{10}H_{18}O_{10}$ Glucosido-2-erythronic acid, preparation, calcium salt, 311; hydrolysis, 311.
$C_{10}H_{20}O_2$ 1) Butoxy methyl ether of dimethylvinyl carbinol, preparation, properties, 881; 2) monoethyl ether of tetramethylbutynediol, properties, oxidation, 761.
$C_{10}H_{20}Br_2$ 3,6-Dimethyl,4-5-dibromoctane, preparation, properties, 447.
$C_{10}H_{20}S$ Sulfide, product of reaction of 2-methylbutene-2 with sulfur, 771.
$C_{10}H_{20}S_2$ 1) Disulfide, product of reaction of 2-methylbutene-2 with sulfur, 770; 2) disulfide, product of reaction of pentene-2 with sulfur, 773.
$C_{10}H_{20}S_3$ 1) Trisulfide, product of reaction of 2-methylbutene-2 with sulfur, 770; 2) trisulfide, product of reaction of pentene-2 with sulfur, 773.
$C_{10}H_{20}S_5$ Product of reaction of 2-methylbutene-2 with sulfur, 772.
$C_{10}H_{22}O_2$ Monoethyl ether of tetramethylbutanediol, preparation, properties, 761.

10 III

$C_{10}H_6N_2Br_2$ 1,4-Naphthaquinonedibromodiimide, preparation, properties, 1921.
$C_{10}H_7O_4Cl$ 1) β-Lactone of o-chlorobenzal malonic acid, preparation, properties, 464; 2) β-lactone of m-chlorobenzal malonic acid, preparation, properties, 465; 3) β-lactone of p-chlorobenzal malonic acid, preparation, properties, 464.
$C_{10}H_8O_3S$ α- and β-Naphthalene sulfonic acids, preparation, properties, solubility, solubility of Na salts, 2177; hydrolysis, 1084, 1086.
$C_{10}H_9ON$ 1-Methylindole-3-aldehyde, condensation with malonic acid, 2287.
$C_{10}H_{10}O_3S$ ω-Phenylbutadiene sulfonic acid, preparation, properties, salts, conversion, 1947.
$C_{10}H_{11}OCl$ α-Chloro-(p-tolyl) acetone, preparation, properties, reaction with potassium acetate, 1337.
$C_{10}H_{11}O_3N$ Methyl ester of oxalylmethylanilide, absorption spectrum, 1745.
$C_{10}H_{12}O_2N_2$ α,β-Diacetylphenylhydrazine, synthesis, absorption spectrum, 1736.
$C_{10}H_{12}O_3Hg$ 1) o-Tolyl mercury lactate, preparation, properties, 347; 2) p-tolyl mercury lactate, preparation, properties, 346.
$C_{10}H_{14}ON_2$ 4-Dimethylaminoacetanilide, azo compound, 300.
$C_{10}H_{16}OS$ 2-Methylhexahydrothiochromane-4-one, condensation with vinyl acetylene, 405.
$C_{10}H_{21}O_2Cl$ Dibutylchloroacetal, formation, 658.
$C_{10}H_{22}O_6P_2$ 2-Methyl-3,4-di-(dimethylphosphone)-hexene-2, formation, 103.
$C_{10}H_{23}O_5P$ Di-β-ethoxyisopropylphosphorous acid, preparation, properties, 110.

10 IV

$C_{10}H_5O_6S_3Cl_3$ 1,3,5-Naphthalenetrisulfonyl chloride, preparation, 1888.
$C_{10}H_6ONBr$ 1,4-Naphthoquinonebromoimide, preparation, properties, 1920.
$C_{10}H_7O_2ClS$ α- and β-Naphthalene sulfonyl chlorides, preparation, 1887.
$C_{10}H_8O_2NBr$ β-Bromoethylphthalimide, synthesis, 2368.
$C_{10}H_9O_2NS$ Sulfamide of the naphthalene series, 979.
$C_{10}H_{10}ON_4S$ N-(4-Methylthiazolyl-2)-N'-(pyridyl-2)-urea, preparation, properties, 959.
$C_{10}H_{10}O_2N_2S$ Amino sulfamide of the naphthalene series, 977.
$C_{10}H_{12}O_2Cl_3P$ Ethyl ester of trichloromethyl-p-tolylphosphinic acid, preparation, properties, saponification, 1211.
$C_{10}H_{17}O_2PSn$ Methyl ester of phenylphosphonetrimethyltin, preparation, properties, 116.
$C_{10}H_{21}O_3SK$ Isomeric alkyl sulfonates, synthesis, properties, surface tension, 2164.

Group C_{11}

11 I

$C_{11}H_{12}$ 1) 2-Phenylpentadiene-1,4, formation, properties, oxidation, 622, 899; 2) 4-Phenyl-pentadiene-1,3, formation, 898; 3) α-phenyl-α-cyclo propylethylene, preparation, properties, oxidation, 895 ; 4) Hydrocarbon, product of the action of alkali on the chlorohydrin of 1,1-methylphenylcyclobutane-2, synthesis, properties, 625.

$C_{11}H_{14}$ 1) 2,4-Dimethyl-1 - vinylethinyl-Δ^1-cyclopentene, preparation, hydrogenation, hydration, 2091; 2) 2-methyl-1-vinylethinyl-Δ^1-cyclohexene, preparation, properties, hydrogenation, cyclohydration, hydration, 2083; 3) 1-phenylpentene-1(β-propylstyrene), reaction with sulfur, 1264; 4) 3-methyl-1-phenylbutene-1, preparation, reaction with sulfur, 1265; 5) 1-phenyl-2-methyl butene-1(β-methyl-β-ethylstyrene) preparation, properties, reaction with sulfur, 1267.

$C_{11}H_{16}$ 1) Iso-amylbenzene, reaction with sulfur, 1266; 2) tert-amylbenzene, reaction with sulfur, 1268; 3) amyl benzenes, formation, 487.

$C_{11}H_{18}$ 3,8-Dimethyl-Δ^5-tetrahydroindane, preparation, dehydrogenation, 921.

$C_{11}H_{22}$ 1) 3,5-Dimethyl-5-ethyl-3-heptene, preparation, properties, hydrogenation, 908; 2) 2,4-dimethyl-1-butylcyclopentane, preparation, properties, 2095.

$C_{11}H_{24}$ 3,5-Dimethyl-5-ethyl-3-heptane, preparation, properties, 908.

11 II

$C_{11}H_{10}O_4$ β-Lactone of β-phenylethylidene malonic acid, preparation, 463.

$C_{11}H_{10}S$ 1) α-Phenyl-α'-thiotolene, preparation, 1264; 2) α-phenyl-β-thiotolene, preparation, properties, 1267; 3) α-phenyl-β'-thiotolene, preparation, properties, 1265.

$C_{11}H_{12}O_2$ Ethyl ester of cinnamic acid, action of NO_2 on, 1283.

$C_{11}H_{13}Cl$ 1) 2-Phenyl-5-chloropentene-2, formation, properties, oxidation, action of alkalies on, 616, 2) chlorohydrin of 1,1-methylphenylcyclobutanol-2, formation, properties, oxidation, action of alkalies on, 623.

$C_{11}H_{14}O$ 1) Methylphenylcyclopropylcarbinol, reaction with acids, 613; reaction with formic acid, 895; 2) methylphenylcyclobutanol, formation, properties, oxidation, 619; 3) γ,γ-methylbenzylallyl-alcohol, formation, properties, 434; 4) methylbenzylvinylcarbinol, action of H_2SO_4 on, 431; 5) methylphenylallylcarbinol, preparation, reaction with HCOOH, formate, 898. 6) 2-phenylpenten-2-ol-5, formation, properties, hydrogenation, 897; 7) 1-methoxytetralin, preparation, 1216.

$C_{11}H_{14}O_2$ 1) α-Phenyl-α-cyclopropyl-ethylene glycol, formation, properties, 892; 2) 3,8-dimethyl-Δ^5-tetrahydroindan-1,2-dione, preparation, properties, hydrogenation, 2,4-dinitrophenylhydrazone, 920.

$C_{11}H_{14}O_3$ 5,8-Dimethylhydrindene-1,2,5-trione, preparation, properties, 2,4-dinitrophenylhydrazone, 705.

$C_{11}H_{14}S$ 1) 2,2-Dimethyl-4-vinyl-ethynyl-$\Delta^{4,5}$-dihydrothiopyrane, preparation, properties, hydrogenation, 402; 2) 2,5-dimethyl-4-vinyl-ethynyldihydrothiopyrane, preparation, properties, 404.

$C_{11}H_{16}O$ 1) γ-Phenyl amyl alcohol, preparation, oxidation, 898; 2) 1-allyl-2,4-dimethyl-Δ^1-cyclopentenyl ketone, preparation, properties, hydrogenation, ozonation, hydration, 2095; 3) allyl-2-methyl-Δ^1-cyclohexenyl ketone, preparation, properties, hydrogenation, ozonation, cyclization, 2086; 4) 2,4-dimethyl-1-vinylethynylcyclopentan-1-ol, preparation, properties, transformations, 2094; 5) 2-methyl-1-vinylethynylcyclohexan-1-ol, hydrogenation, dehydration, 2082; 6) 3,8-dimethyl-Δ^5-tetrahydroindan-1-one, preparation, properties, hydrogenation, semicarbazone, condensation with acetylene, reduction, 915; 7) 1,8-dimethyl-Δ^1-hexahydroinden-3-one, preparation, properties, hydrogenation, ozonation, derivatives, action of CH_3ONa on, 2083.

$C_{11}H_{16}O_2$ 1) 3,8-Dimethylhydrindan-1,2-

dione, preparation, properties, 2,4-dinitro phenylhydrazone, 920; 2) 3,8-dimethylhydrindan-1,5-dione, preparation, properties, di-semicarbazone, 700; 3) 9-methyl-1,6-diketodecalin, formation, properties, 691.

$C_{11}H_{18}O$ 1) 1,8-dimethylhexahydrindan -3-one, preparation, properties, 2084; 2) 3,8-dimethylhydrindan -1-one, preparation, properties, semicarbazone, 915.

$C_{11}H_{18}O_2$ 1) Ethyl ether of n-butylfuryl carbinol, preparation, properties, 1954; 2) ethyl ether of iso-butylfuryl carbinol, preparation, properties, 1954; 3) 2,2,3-trimethyl-3-acetoxyhexyne-4, preparation, properties, 2105; 4) bicyclic pyrone, preparation, properties, 2096.

$C_{11}H_{18}O_5$ Diethyl ester of γ-ketopimelic acid, preparation, properties, 672.

$C_{11}H_{20}O$ 1) Propyl-2,4-dimethylcyclopentenyl ketone, preparation, properties, 2095; 2) propyl-2-methylcyclohexyl ketone, preparation, 2086.

$C_{11}H_{20}O_2$ Pentoxy methyl ether of dimethylacetylenylcarbinol, preparation, properties, electrolytic reduction, 878.

$C_{11}H_{20}O_{11}$ 1) Glucosido-3-arabonic acid, preparation, Ca salt, oxidation, 121, 309; 2) galactosido-3-arabonic acid, preparation, oxidation, 125.

$C_{11}H_{22}O$ 1) 2,4-Dimethyl-1-vinyl ethynylcyclopentan-1-ol, preparation, properties, 2094; 2) 1-butyl-2-methyl cyclohexan-1-ol, preparation, properties, 2082; 3) di-n-amyl ketone, condensation with acetylene, 292.

$C_{11}H_{22}O_2$ Pentoxy methyl ether of dimethyl vinyl carbinol, preparation, properties, 881.

$C_{11}H_{22}S$ 2,2-Dimethyl-4-butyltetrahydrothiopyran, preparation, properties, 402.

11 III

$C_{11}H_7O_3N$ 5-Nitro-1-naphthaldehyde, separation from 8-nitro-1-naphthaldehyde, 1073.

$C_{11}H_{10}ON_4$ N,N'-Di-(pyridyl-2)-urea, reaction with amines, 963.

$C_{11}H_{10}N_2S$ 2'-Amino-3,4-dihydronaphthothiazole-1,2, preparation, properties, derivatives, 1722.

$C_{11}H_{11}ON$ 1,2-Dimethylindole-3-aldehyde, preparation, condensation with malonic acid and with ethyl cyanoacetate, 2287.

$C_{11}H_{11}O_3P$ 2-Phosphonemethylnaphthalene, preparation, properties, 1298.

$C_{11}H_{11}O_5N$ Hippurylglycolic acid, 1103.

$C_{11}H_{12}O_6N_2$ Product of the addition of N_2O_3 to the ethyl ester of cinnamic acid, 1286.

$C_{11}H_{12}O_7N_2$ Product of addition of N_2O_4 to the ethyl ester of cinnamic acid, 1288.

$C_{11}H_{15}O_2N_3$ α-(Dimethylamidooxalyl)-β-methylphenylhydrazine, synthesis, absorption spectrum, 1730.

$C_{11}H_{16}OS$ 1) 2,2-Dimethyl-4-vinyl-ethynyltetrahydrothiopyran-4-ol, preparation, properties, dehydration, hydrogenation, 403; 2) 2,5-dimethyl-4-vinylethinyltetrahydrothiopyran-4-ol, preparation, properties, isomers, dehydration, 404.

$C_{11}H_{17}O_2P$ 1) Ethyl ester of p-tolyl phosphinous acid, preparation, properties, isomerization, 1210; 2) ethyl ester of p-tolylethylphosphinic acid, preparation, properties, 1210; 3) propyl ester of methyl-p-tolylphosphinic acid, preparation, properties, 1211.

$C_{11}H_{22}OS$ 1) 2,2-Dimethyl-4-butyltetrahydrothiopyran-4-ol, preparation, properties, 403; 2) 2,5-dimethyl-4-butyltetrahydrothiopyran-4-ol, preparation, properties, 404.

$C_{11}H_{23}O_5N$ N,N-di-(propanol-2-ethoxy-3)-formamide, preparation, properties, 2138.

11 IV

$C_{11}H_{13}O_2N_2Cl$ β-(5-Chloropyridyl-2-)-aminocrotonic ester, preparation, properties, 1961.

$C_{11}H_{13}O_2N_2Br$ β-(5-Bromopyridyl-2-)-aminocrotonic ester, preparation, properties, 1961.

$C_{11}H_{13}O_2N_2I$ β-(5-Iodopyridyl-2-)-aminocrotonic ester, preparation, properties, 1960.

$C_{11}H_{14}ON_4S_2$ Product of reaction of NN'-di-(4-methylthiazolyl-2)-urea with dimethyl sulfate, 958.

$C_{11}H_{14}O_2Cl_3P$ Propyl ester of trichloromethyl-p-tolylphosphinic

acid, preparation, properties, 1211.

$C_{11}H_{23}O_3SK$ Isomeric alkyl sulfonates, synthesis, properties, surface tension, 2164.

Group C_{12}

12 I

$C_{12}H_8$ Acenaphthylene, preparation, 1881.

$C_{12}H_{18}$ 1) 5-Tert-butyl-6-methyl-1,5-heptadien-3-ine, preparation, properties, transformation, 1512; 2) diisopropylbenzene, formation, 488; 3) 1,3,5-triethylbenzene, formation, 472; 4) β-vinyloctalin, preparation, properties, addition product with maleic anhydride, condensation with 1,3-dimethyl-Δ^1-cyclopenten-5-one, 566; 5) 1-vinyl-'-octalin, preparation, properties, condensation with Δ^1-cyclopentene-5-one, 565.

$C_{12}H_{24}$ 5-Tert-butyl-6-methyl-5-heptene, preparation, properties, 1512.

12 II

$C_{12}H_{10}O_4$ 1) Cinnamylidene malonic acid, formation, 627; 2) β-lactone of cinnamylidene malonic acid, preparation, properties, 629.

$C_{12}H_{10}N_2$ Eleagnine (tetrahydrosrabine), structure, 1995.

$C_{12}H_{10}Hg$ Diphenyl mercury, photoreaction with iodobenzene, 178; with benzyl iodide and chloride, 180; reaction with phenols, 2171; with thiophenols, 2167.

$C_{12}H_{11}N$ Diphenylamine, solubility in water, 227; reaction with acrolein, 497.

$C_{12}H_{12}O_4$ β-Lactone of hydrocinnamal malonic acid, preparation, 464.

$C_{12}H_{13}N$ 4-Methyl-2-ethylquinoline, synthesis, 492.

$C_{12}H_{14}O_2$ 1) Methylphenylallylcarbinol formate, 899; 2) β-tetrallyl acetic acid (1,2,3,4-tetrahydro-6-naphthylacetic acid), synthesis, properties, amide, acid chloride, 146; 3) ester, product of the action of formic acid on methylphenylcyclopropylcarbinol, 895.

$C_{12}H_{14}N_2$ N-(1-Naphthyl)-ethylenediamine dihydrochloride, synthesis, 2370.

$C_{12}H_{16}O$ 7-Methoxy-5-isobutenyl-1,5-heptadien-3-ine, preparation, properties, 1650.

$C_{12}H_{16}S$ 2,3,6-Trimethyl-4-vinylethynyltetrahydrothiopyran, synthesis, properties, 405.

$C_{12}H_{18}O$ 1) 1-Ethynyl-1-decalol, synthesis, hydrogenation, 565; 2) 5-isobutyl-7-methoxy-1,5-heptadien-3-ine, preparation, properties, hydrogenation, hydration, 1649; 3) α-phenyl ethyl butyl ether, synthesis, properties, condensation with benzene, 331.

$C_{12}H_{18}O_2$ 1) 5-β-Methoxypropyl-7-methoxy-1,5-heptadien -3-ine, preparation, properties, hydrogenation, 1899, 2) β-methoxyethylisobutenylvinylethinylcarbinol, preparation, properties, hydrogenation, isomerization, 1647; 3) Δ^8-9-methyl-6-methoxy-1-octalone, preparation, properties, semicarbazone, hydrogenation, hydrolysis, condensation with acetylene, 690; 4) 3,8-dimethyl-5-methoxy-Δ^5-tetrahydroindan-1-one, preparation, hydrogenation, hydrolysis, condensation with acetylene, 699; 5) butyl phenyl acetal, preparation, thermal decomposition, 649.

$C_{12}H_{18}O_7$ Diacetone-2-keto-l-gulonic acid, conversion into l-ascorbic acid, 2145.

$C_{12}H_{20}O$ 1) Isopropyl tert-butylvinylethynylcarbinol, preparation, properties, transformation, 1511; 2) 5-tert-butyl-6-methyl-1,5-heptadien-4-one, preparation, properties, transformation, 1512; 3) 1-vinyl-1-decalol, synthesis, dehydration, 565; 4) 2-vinyl-2-decalol, synthesis, dehydration, 566; 5) 2,2,3-trimethyl-1-tert-butyl-$\Delta^{3,4}$-cyclopenten-5-one, preparation, properties, transformation, 1512.

$C_{12}H_{20}O_2$ 1) Isobutyl-β-methoxyethylvinylethynylcarbinol, preparation, hydrogenation, dehydration, 1646; 2) 5-isobutyl-7-methoxy 1,4-heptadien-3-one, preparation, properties, hydrogenation, ozonation, cyclization, action of NH_3 on, 1648; 3) 5-isobutyl-7-methoxy-1,5-heptadien-4-one, preparation, properties, hydrogenation, ozonation, cyclization, action of NH_3 on, 1650; 4) 9-methyl-6-methoxy-1-decalone, preparation, properties, semicarbazone, 691; 5) 5-methoxy-3,8-dimethylhydrindan-1-one, preparation,

properties, 701; 6) β-lactone of methylideneacetic acid, properties, decomposition, structure, 637; 7) cyclopentenone, product of cyclization of 5-isobutyl-7-methoxy-1,5-heptadien-4-one, preparation, properties, transformation, 1652.

$C_{12}H_{20}O_3$ 1) β-Methoxyethyl-β-methoxypropylvinylethynyl carbinol, preparation, properties, hydrogenation, dehydration, isomerization, hydration, 1898; 2) 5-β-methoxyethyl-7-methoxy-1,4-octadien-3-one, preparation, properties, hydrogenation, 1899.

$C_{12}H_{20}O_6$ Mannitol triacetal formation, 709.

$C_{12}H_{20}N_2$ p-Aminodipropylaniline, reaction with urea derivatives, 963.

$C_{12}H_{22}O$ 2,2,3-Trimethyl-1-tert-butylcyclopentan-5-one, preparation, properties, 1513.

$C_{12}H_{22}O_2$ Cyclopentanone, product of hydrogenation of a substance of empirical formula $C_{12}H_{20}O_2$, preparation, properties, 2,4-dinitrophenyl hydrazone, 1652.

$C_{12}H_{22}O_{11}$ 1) Maltose, determination of structure, 121; 2) lactose, determination of structure, 125; 3) cellobiose, structure, 309.

$C_{12}H_{24}O$ 5-Tert-butyl-6-methyl-heptan-4-one, preparation, properties, 1513.

$C_{12}H_{24}O_3$ 5-β-Methoxyethyl-7-methoxy octan -4-one, preparation, properties, 1899.

$C_{12}H_{24}S_3$ Trisulfide, product of reaction of 2,3-dimethylbutene-2 with sulfur, 774.

$C_{12}H_{26}O$ Isopropylbutyl-tert-butyl carbinol, preparation, properties, 1511.

$C_{12}H_{26}O_2$ 1) Butyl-isobutyl-β-methoxy ethylvinyl-ethinylcarbinol, preparation, properties, 1647; 2) 5-β-methoxyethyl-7-methoxyoctane, preparation, properties, 1898.

$C_{12}H_{26}O_3$ Butyl-β-methoxyethyl-β-methoxypropyl carbinol, preparation, properties, 1898.

12 III

$C_{12}H_7O_2N$ (5-Nitronaphthyl-1)-acetylene, preparation, properties, 1546.

$C_{12}H_{10}ON_2$ Monobenzoyl-2-aminopyridine, formation, 201.

$C_{12}H_{10}OHg$ Product of mercuration of phenol, 2175.

$C_{12}H_{10}S_2Hg$ Mercury thiophenolate, preparation, properties, 2167.

$C_{12}H_{10}S_2Pb$ Lead thiophenolate, preparation, properties, 2168.

$C_{12}H_{11}O_2N$ β-(1-Methylindolyl-3)-acrylic acid, preparation, properties, 2293.

$C_{12}H_{14}O_6P_2$ 1,4-Diphosphonemethylnaphthalene, preparation, 1298.

$C_{12}H_{16}O_2Hg$ 1) o-Tolylmercury isovaleriate, preparation, properties, 346; p-tolylmercury isovaleriate, preparation, properties, 346.

$C_{12}H_{17}ON$ 1) Racemic N-propyltetrahydroquinoline oxide, salts, 1098; 2) racemic N-isopropyltetrahydroquinoline oxide, salts, 1098; 3) p-tert-butylacetanilide, preparation, 1488.

$C_{12}H_{18}OS$ 2,3,6-Trimethyl-4-vinylethinyltetrahydrothiopyran-4-ol, synthesis, properties, dehydration, 404.

$C_{12}H_{18}O_6P_2$ 5,8-Diphosphonemethyl-1,2,3,4-tetrahydronaphthalene, preparation, properties, 1299.

$C_{12}H_{19}O_2P$ n-Butyl ester of p-tolyl phosphinous acid, preparation, properties, 1212.

$C_{12}H_{20}ON_2$ Isoammodendrine, structure, 1781.

$C_{12}H_{21}O_3P$ α,α',α''-Trivinyltriethyl phosphite, preparation, properties, structure, bromination, 1550.

$C_{12}H_{22}O_2S$ Dimethoxypentenylthio ether, formation, 890.

$C_{12}H_{23}O_2N$ Piperidone, product of reaction of 7-methoxy-5-isobutyl-1,5-heptadien-4-one with NH_3, preparation, properties, semicarbazone, 1654.

$C_{12}H_{27}O_3P$ Tributyl phosphite, action on 2-methyl-2-chlorobutyne-3, 102.

$C_{12}H_{27}O_6P$ Di-β-ethoxyisopropyl ester of methoxymethylphosphinic acid, formation, properties, 108.

12 IV

$C_{12}H_7OCl_3Hg$ Product of mercuration of 2,4,6-trichlorophenol, 2173.

$C_{12}H_7O_7NHg$ Product of mercuration of 2,4,6-trinitrophenol, 2174.

$C_{12}H_8OCl_2Hg$ Product of reaction of diphenylmercury with 2,4-dichlorophenol, 2173.

$C_{12}H_9OClHg$ Product of reaction of

diphenyl mercury with p-chlorophenol, 2172.

$C_{12}H_{12}O_3N_2S$ Amino sulfamides of the naphthalene series, 977.

$C_{12}H_{10}O_2Cl_3P$ 1) Butyl ester of trichloromethyl-p-tolylphosphinic acid, preparation, properties, 1213; 2) isobutyl ester of trichloromethyl-p-tolylphosphinic acid, preparation, properties, 1213.

Group C_{13}

13 I

$C_{13}H_{12}$ Diphenylmethane, formation, 2250.

$C_{13}H_{18}$ 3,8-Dimethyl-1-vinyl-$\Delta^{1,5}$-tetrahydroindene, preparation, properties, condensation, 917.

13 II

$C_{13}H_{10}O_2$ β-(Naphthyl-1)-acrylic acid, method of production, ethyl ester, 1539.

$C_{13}H_{12}O$ 1) Benzyl phenols (o- and p-) formation, 2240; 2) phenyl benzyl ether, formation, 2240; 3) styrylvinylethinylcarbinol, synthesis, properties, hydrogenation, isomerization, 1163; 4) 7-phenyl-1,5-heptadien-3-yne,7-ol,preparation, properties, hydrogenation, isomerization, 1162.

$C_{13}H_{12}O_2$ 2-Ethoxy-1-naphthaldehyde, preparation, properties, anil, 2383.

$C_{13}H_{12}O_4$ Malonic acid ester of the acid enol of benzalacetone, 469.

$C_{13}H_{14}O$ 1) 7-Phenyl-1,3,5-heptatriene-5-ol, formation, 1164; 2) 7-phenyl-1,3,6-heptatriene-5-ol, isomerization, 1164.

$C_{13}H_{14}O_2$ 1) β-Phenylethylfuryl carbinol, preparation, properties, isomerization, 1952; 2) 1-p-hydroxyphenyl-2,3-dimethyl-$\Delta^{1,2}$-cyclopentene-5-one, preparation, properties, 1499.

$C_{13}H_{14}O_3$ Benzalacetoacetic ester, condensation with piperylene, 83.

$C_{13}H_{15}N$ 1) 4,6-Dimethyl-2-ethylquinoline, synthesis, 493; 2) 4,8-dimethyl-2-ethylquinoline, synthesis, 494.

$C_{13}H_{16}O_3$ 7-Phenyl-4-ketoheptanoic acid, preparation, properties, ethyl ester, 1953.

$C_{13}H_{18}O$ 1) 3,8-Dimethyl-1-ethinyl-Δ^5-tetrahydroindan-1-ol, preparation, properties, hydrogenation, 916; 2) 1-propoxy tetralin, preparation, condensation with succinic anhydride, 1216; 3) 1-vinyl-5-keto-9-methyl-$\Delta^{1,2}$-octalin, preparation, properties, semicarbazone, condensation, 695; 4) 1-vinyl-3,8-dimethyl-5-keto-Δ'-hydrindene, preparation, properties, condensation, 703.

$C_{13}H_{18}O_2$ 1) 1-Ethinyl-5-keto-3,8-dimethylhexahydroindan-1-ol, preparation, properties, semicarbazone, hydrogenation, 702; 2) 1-ethinyl-6-keto-9-methyl-1-decalol, preparation, properties, semicarbazone, hydrogenation, 692.

$C_{13}H_{20}O$ 1) Pseudoionone, condensation with malonic anhydride, 462; 2) 7-phenyl heptane-5-ol, formation, properties, 1161; 3) 3,8-dimethyl-1-vinyl-Δ^5-tetrahydroindane-1-ol, preparation, properties, dehydration, 916.

$C_{13}H_{20}O_2$ 1) 1-methoxy-2-methyl-3-β-methoxypropyl-2,6-heptadiene-4-yne, preparation, properties, hydrogenation, 1901; 2) 1-vinyl-5-keto-3,8-dimethylhexahydroindane-1-ol, preparation, properties, dehydration, 703; 3) 1-vinyl-6-keto-9-methyl-1-decalol, preparation, properties, 2,4-dinitrophenyl hydrazone, dehydration, 693.

$C_{13}H_{20}O_4$ β-Lactone of methylidene malonic acid, preparation, properties, 463.

$C_{13}H_{22}O$ 5-p-Methoxyphenylheptane, preparation, properties, 1498.

$C_{13}H_{22}O_2$ 1-Ethyl-6-keto-9-methyl-1-decalol, preparation, properties, semicarbazone, 693.

$C_{13}H_{22}O_3$ β-Methoxy propyl-β-methoxy-isopropyl-vinyl ethinyl carbinol, preparation, properties, hydrogenation, dehydration, 1900.

$C_{13}H_{22}O_5$ Dipropyl ester of γ-keto pimelic acid, preparation, properties, 671.

$C_{13}H_{24}O$ 1) Methylnonylacetylenyl carbinol, preparation, 1110; 2) 3,8-dimethyl-1-ethyl hydrindane-1-ol, preparation, properties, 916.

$C_{13}H_{24}O_2$ Monoisoamyl ester of tetramethylbutynediol, preparation, properties, hydrogenation, action of alkalies on, 757.

$C_{13}H_{24}O_3$ 1) 1,7-dimethoxy-5-isobutyl-4-heptene-3-one, preparation, properties, ozonation, hydrogenation, demethylation, 1648; 2) 2,7-dimethoxy-5-isobutyl-5-heptene-4-one, preparation, properties, hydrogenation, fission of methanol from, 1652.

$C_{13}H_{24}O_4$ 1,7-dimethoxy-5-β-methoxyethyl-4-octene-3-one, preparation, properties, hydrogenation, ozonation, 1900.

$C_{13}H_{24}O_5$ Product of oxidation of 1-methoxy-5-methyl-4-hexene-3-one, 2276.

$C_{13}H_{26}O_2$ Monoisoamyl ether of tetramethyl butenediol, preparation, properties, oxidation, 761.

$C_{13}H_{26}O_3$ 1,7-Dimethoxy-5-isobutylheptane-3-one, preparation, properties, 1648.

$C_{13}H_{28}O_4$ 1,7-Dimethoxy-5-β-methoxyethyl-4-octene-3-one, preparation, properties, 1900.

$C_{13}H_{28}O_2$ 1) 5-β-methoxypropyl-6-methyl-7-methoxyheptane, preparation, properties, 1901; 2) monoisoamyl ether of tetramethylbutandiol, preparation, properties, 762.

$C_{13}H_{28}O_3$ Butyl-β-methoxypropyl-β-methoxy-iso-propyl-carbinol, preparation, properties, 1901.

$C_{13}H_{30}Sn$ Tri-n-propyl-n-butyl-tin, action of $BiCl_3$ on, 2077.

13 III

$C_{13}H_7O_4N$ (5-nitronaphthyl-1)-propiolic acid, preparation, properties, derivatives, 1543.

$C_{13}H_9O_4N$ β-(5-nitronaphthyl-1) acrylic acid, preparation, properties, derivatives, alkamino esters and dialkylamino alkyl esters, 1071.

$C_{13}H_{11}OBr$ p-Bromphenylbenzyl ether, formation, 2278.

$C_{13}H_{11}O_2N$ 1-(α-Furyl)-5-(α-pyrryl)-2-pentadiene-1,3-one-5, preparation, properties, 1129.

$C_{13}H_{11}O_4N$ 1-Methylskatolidene-malonic acid, preparation, properties, transformation, 2292.

$C_{13}H_{11}NS$ 3-Methyl-2-methylene-α-naphthothiazoline, preparation, properties, reaction with methyl and ethyl iodides, 156.

$C_{13}H_{12}ON_2$ Diphenylurea, reaction with amines, 983.

$C_{13}H_{12}OHg$ Products of the mercuration of cresols, 2174, 2175.

$C_{13}H_{13}ON_3$ N,N'-Di-(β-cyanoethyl)-benzamide, preparation, properties, 1117.

$C_{13}H_{17}O_3N_3$ Dioxypyramidon, synthesis, absorption spectrum, 1729.

$C_{13}H_{17}O_2P$ n-Propyl ester of p-tolylphosphinous acid, 1211.

$C_{13}H_{25}O_3P$ 2-Methyl-4-dibutylphosphonebutadiene-2,3, preparation, properties, 102.

$C_{13}H_{27}O_2Cl$ Heptylbutylchloroacetal, formation, properties,

$C_{13}H_{29}O_6P$ Di-β-ethoxyisopropyl ester of ethoxymethyl phosphinic acid, formation, properties, 108.

13 IV

$C_{13}H_8O_3N_4S$ p-Nitrobenzoylaminopiazothiole, preparation, properties, 1984.

$C_{13}H_{11}ONS$ 4-Methyl-3-oxodihydro-(α-naphtho-1,4-thiazine), preparation, 1978.

$C_{13}H_{11}O_2N_3S_2$ Amino-sulfamide of the naphthalene series, 977.

$C_{13}H_{11}O_3NHg$ Product of the reaction of dibenzyl mercury and p-nitrophenol, 2172.

$C_{13}H_{12}O_2N_2S$ α-Aminopyridide of styrenesulfonic acid, preparation, properties, 1944.

$C_{13}H_{15}ON_2Br$ 3-Methyl-1-phenyl-4(β bromopropyl)-pyrazolone-5, preparation, properties, 1950.

Group C_{14}

14 I

$C_{14}H_{10}$ Anthracene, electrolytic reduction, 871; reaction with PCl_5 and PBr_5, 363.

$C_{14}H_{12}$ 1) 1-Vinylethinyl-3,4-dihydronaphthalene, preparation, hydrogenation, hydration, 1363; 2) stilbene, formation, 2324.

$C_{14}H_{14}$ 1) 1,1-Diphenylethane, formation, 331,478; 2)1,2-diphenylethane, formation, 332, 478; 3) 5-phenyl-6-methyl-

1,5-heptadiene-3-yne, preparation, properties, transformation, 1504; 4) 1-methyl-4-benzylbenzene, formation, 2251.

$C_{14}H_{16}$ Butylnaphthalene, formation, 487.

$C_{14}H_{18}$ 1) 1-Vinylethinyloctalin, preparation, hydrogenation, hydration, 1359; 2) vinylethinyl camphene, preparation, properties, transformation, 2258.

$C_{14}H_{20}$ Allylcamphenyl ketone, preparation, properties, transformation, 2259.

$C_{14}H_{22}$ 1) 5-Phenyl-6-methylheptane, preparation, properties, 1504; 2) dibutylbenzene, formation, 486; 3) 1,2,4,5-tetraethyl benzene, formation, 469.

$C_{14}H_{24}$ Product of dehydration of methylethylallyl carbinol, 441.

$C_{14}H_{26}$ Butyldihydrocamphene, preparation, properties, 2258.

14 II

$C_{14}H_8Cl_2$ 9,10-Dichloroanthracene, preparation, 363.

$C_{14}H_9Br$ 9,10-Dibromoanthracene, preparation, 364.

$C_{14}H_9Cl$ 9-Chloroanthracene, formation, action of PCl_5 on, 363.

$C_{14}H_9Br$ 9-Bromoanthracene, formation, action of PCl_5 on, 364.

$C_{14}H_{12}O_3$ 3-Methoxy-4-hydroxybenzophenone, preparation, properties, structure, 374.

$C_{14}H_{12}O_4$ 1) 2-Ethoxy naphthoyl-1-formic acid, preparation, properties, derivatives, 2381; 2) β-(2-hydroxy-naphthoyl-1)-propionic acid, preparation, reduction, ethyl ester, 2380; 3) β-(2-hydroxy-6-naphthoyl)-propionic acid, reduction, ethyl ester, 2414.

$C_{14}H_{14}O$ 1) Benzylbenzyl alcohol, formation, 2239; 2) 5-p-methoxyphenyl-1,5-heptadiene-3-yne, preparation, properties, transformations, 1498; 3) 3-methyl-4,5-dihydro-6,7-benzindane-1-one, preparation, hydrogenation, dehydrogenation, 1367; 4) 1-methoxy-4-benzyl benzene, formation, 2252.

$C_{14}H_{14}O_3$ 1) γ-(2-Hydroxy-1-naphthyl)-butyric acid, preparation, properties, 2415; 2) γ-(2-hydroxy-6-naphthyl)-butyric acid, preparation, properties, 2414.

$C_{14}H_{14}Hg$ 1) Dibenzylmercury, reaction with phenols, 2172; 2) p-di-tolylmercury, photo reaction with iodobenzene, 178; interaction with organic acids, 345; 3) o-ditolylmercury, photo reaction with iodobenzene, 179; with benzyl iodide, 180; photo reactions of, 183; interaction with organic acids, 345.

$C_{14}H_{16}O$ 1) Isopropylphenylvinylethinyl carbinol, preparation, properties, transformations, 1504; 2) 5-phenyl-6-methyl-1,5-heptadiene-4-one, preparation, properties, transformations, 1505; 3) 1-phenyl-2,2,3-trimethyl-$\Delta^{3,4}$-cyclopentene-5-one, preparation, properties, transformations, semicarbazone, 1505.

$C_{14}H_{16}O_2$ 1) 1-p-Methoxyphenyl-2,3,dimethyl-$\Delta^{1,2}$ cyclopentene-5-one, preparation, properties, transformations, semicarbazone, 1499; 2) 3-methyl-2-phenyl-Δ^4-cyclohexenecarboxylic acid, preparation, properties, dehydrogenation, 85.

$C_{14}H_{16}O_3$ 2-methyl-6-phenyl-Δ^3-cyclohexene-1-carboxylic acid, formation, silver salt, dehydrogenation, 84.

$C_{14}H_{16}O_4$ 1) 1-Hydroxytetrahydronaphthoyl-4-propionic acid, preparation, properties, ethyl ester, 1221; 2) benzalmalonic ester, condensation with piperylene, 82.

$C_{14}H_{18}O$ 3-Methyl-$\Delta^{8,9}$-octahydro-6,7-benzindane-1-one, preparation, properties, 2,4-dinitrophenylhydrazone, hydrogenation, 1361.

$C_{14}H_{18}O_2$ 1) 2,2,5,5-tetramethyl-3-phenoxy-2,5-dihydrofuran, preparation, proof of structure, properties, 926; 2) 2,2,5,5-tetramethyl-3-p-hydroxyphenyl-2,5-dihydrofuran, preparation, properties, proof of structure, 926.

$C_{14}H_{18}O_3$ 1-Hydroxytetrahydronaphthyl-4-butyric acid, preparation, properties, 1222.

$C_{14}H_{18}S$ 2-Methyl-4-vinylethinyltetrahydrothiochroman, preparation, properties, 405.

$C_{14}H_{20}O$ 1) 1-Vinylethinyl-1-decalol, preparation, properties, hydrogenation, dehydration, cyclization, 1358; 2) 1-butoxytetralin, preparation, condensation with succinic

anhydride, 1218; 3) 3-methyldecahydro-6,7-benzindane-1-one, preparation, properties, derivatives, 1362; 4) 2-vinylethinyl-borneol, synthesis, transformations, 2255.

$C_{14}H_{20}O_2$ 1) 1-Ethinyl-6-methoxy-9-methyl-1-octalol, preparation, properties, hydrogenation, hydrolysis, 692; 2) 1-ethinyl-5-methoxy-3,8-dimethyltetrahydroindan-1-ol, preparation, properties, 697; 3) allyl-α-octalyl ketones, preparation, hydrogenation, cyclization, 1360; 4) 2,2,5,5-tetramethyl-3-phenoxy-tetrahydrofuran, preparation, properties, 927; 5) methyl ether of acetylenic keto alcohol, 702.

$C_{14}H_{22}O$ Isopropyl-phenylbutyl carbinol, preparation, properties, 1504.

$C_{14}H_{22}O_2$ 1) 1-Vinyl-6-methoxy-9-methyl-1-octalol, preparation, properties, hydrolysis, isomerization, dehydration, 693; 2) diethyl ether of 2,7-dimethyl-octa-3,5-diyne- 2,7-diol, preparation, properties, 763; 3) 1-methoxy-1-vinyl-6-keto-9-methyldecalin, preparation, hydrogenation, 694; 4) tetrahydro-γ pyrone, product of hydration of allyl-camphenyl ketone, 2260.

$C_{14}H_{22}O_3$ Ethyl ester of 2,5,6 trimethyl-1-acetyl-Δ^3-cyclohexene-1-carboxylic acid, preparation, properties, saponification, semicarbazone, 974.

$C_{14}H_{24}O$ Propyldihydrocamphenyl ketone, preparation, properties, 2259.

$C_{14}H_{24}O_2$ 1-Ethyl-6-methoxy-9-methyl-1-octanol, preparation, hydrolysis, 692.

$C_{14}H_{28}O$ 2-Butyl-borneol, preparation, properties, 2258.

$C_{14}H_{30}S_2$ Isomeric disulfides, synthesis, properties, 2160.

14 III

$C_{14}H_8O_4N_2$ 1-Amino-4-nitroanthraquinone, preparation, properties, absorption spectrum, 1567.

$C_{14}H_8ClBr$ 9-Chloro-10-bromoanthracene, preparation, 364.

$C_{14}H_9O_2N$ 1-Amino-anthraquinone, preparation, absorption spectrum, 1567.

$C_{14}H_9O_3N$ 1-Amino-4-hydroxyquinone, preparation, properties, absorption spectrum, 1567.

$C_{14}H_9O_6N$ 5-Nitro-1-naphthalmalonic acid, preparation, properties, decarboxylation, 1074.

$C_{14}H_{10}O_2N_2$ 1,4-Diamino-anthraquinone, preparation, properties, absorption spectrum, 1567.

$C_{14}H_{22}ON_2$ 1) 1-Ethoxyphenazine, synthesis, properties, picrate, 1696; 2) 1-methoxy-5-methyl phenazine, synthesis, properties, picrate, 1694; 3) 1-methoxy-7-methyl phenazine, synthesis, properties, picrate, 1694.

$C_{14}H_{12}O_2N_2$ 1) 1,5-Dimethoxyphenazine, synthesis, properties, 1695; 2) 1,7-dimethoxyphenazine, synthesis, properties, 1695.

$C_{14}H_{12}O_2Hg$ p-Tolylmercury benzoate, preparation, properties, 347.

$C_{14}H_{12}O_3Hg$ 1) p-Tolylmercury salicylate, preparation, properties, 347; 2) o-tolylmercury salicylate, preparation, properties, 348.

$C_{14}H_{12}O_4N_2$ 1) N-(3-nitrophenacyl)-p-aminophenol, preparation, properties, coloring power, 740; 2) N-(3-nitrophenacyl)-m-aminophenol, preparation, properties, coloring power, 740.

$C_{14}H_{13}O_2N$ 1)(α-Furyl)-5-(α-pyrryl)-2-methylpentadiene-1,3-one-5, preparation, properties, 1129.

$C_{14}H_{14}S_2Hg$ Product of reaction of p-thiocresol with diphenyl mercury, 2168.

$C_{14}H_{14}S_2Pb$ Lead thiocresolate, preparation, properties, 2168.

$C_{14}H_{17}O_2Br$ 2,2,5,5, tetramethyl-3-phenoxy-4-bromo-2,5-dihydrofuran, preparation, properties, 926.

$C_{14}H_{17}O_3N$ Product of reaction of hippuryl chloride with the ethyl ester of lactic acid, 1103.

$C_{14}H_{18}O_2Br_2$ 2,2,5,5 - tetramethyl-3-p-hydroxyphenyl-3,4-dibromotetrahydrofuran, preparation, properties, 929.

$C_{14}H_{20}OS$ 2-Methyl-4-vinylethinylhexahydrothiochroman, preparation, properties, dehydration, 401.

$C_{14}H_{22}OS$ 2-Methyl-4-butylhexahydrothiochroman-4-ol, preparation, properties, 401.

$C_{14}H_{28}O_2S$ Diethoxypentenyl thio ether, formation, properties, oxidation, 889.

$C_{14}H_{31}O_3P$ Di-β-ethoxyisopropyl ester of propoxymethylphosphinic acid, formation, properties, 108.

14 IV

$C_{14}H_8O_4N_2S$ 2-(p-Nitrophenyl)-benzothiazole-6-carboxylic acid, preparation, derivatives, 876.

$C_{14}H_{10}O_2N_2S$ 1) 2-(p-aminophenol)-benzothiazole-6-carboxylic acid, derivatives, 1877; 2) 6-methyl-2-(p-nitrophenyl)-benzothiazole, preparation, properties, 1875.

$C_{14}H_{12}ON_4Cl_2$ 5'-Chloropyridylamide of β-(5-chloropyridyl-2)-amino crotonic acid, preparation, properties, 1962.

$C_{14}H_{12}ON_4Br_2$ 5'-Bromopyridylamide of β-(5-bromopyridyl-2)-amino crotonic acid, preparation, properties, 1962.

$C_{14}H_{12}ON_4I_2$ 5'-Iodopyridylamide of β-(5-iodopyridyl-2)-amino crotonic acid, preparation, properties, 1962.

$C_{14}H_{18}O_2S_2Sn$ Product of reaction of p-thiocresol with tetraphenyl tin, 2169.

$C_{14}H_{18}O_2N_2S$ 1) β-Diethylaminoethyl ester of benzothiazole-2-carboxylic acid, preparation, properties, picrate, 1238; 2) β-diethylaminoethyl ester of benzothiazole-6-carboxylic acid, preparation, properties, picrate, 1241.

$C_{14}H_{25}O_2PSn$ Ethyl ester of phenylphosphonetriethyl tin, preparation, properties, 116.

14 V

$C_{14}H_{14}O_4NClS$ 3,4-Dimethyl-α-naphtho-1,4-thiazine perchlorate, preparation, 1976.

Group C_{15}

15 I

$C_{15}H_{12}$ 9-Methyl anthracene, reaction with PCl_5, 364.

$C_{15}H_{16}$ 1) Diphenylpropane, formation, 482; 2) 1-phenyl-1-p-tolylethane, formation, 2252; 3) 1,3-dimethyl-5-benzylbenzene, formation, 2251.

$C_{15}H_{18}$ Palustrazulene, preparation, properties, picrate, 777.

$C_{15}H_{24}$ 1) Palustrene, preparation, properties, structure, hydrogenation, dehydrogenation, 777; 2) palustrediene, preparation, properties, structure, dehydrogenation, hydrogenation, 777.

$C_{15}H_{26}$ 1) Dihydropalustrene, preparation, properties, 777; 2) dihydropalustrediene, preparation, properties, 777; 3) dihydroshairene, preparation, properties, hydrogenation, 193.

$C_{15}H_{28}$ 1) Tetrahydropalustrediene, preparation, properties, 777; 2) tetrahydroshairene, preparation, properties, 193.

15 II

$C_{15}H_{11}Cl$ 9-Methyl-10-chloroanthracene, preparation, properties, 364.

$C_{15}H_{11}Br$ 9-Methyl-10-bromoanthracene, preparation, properties, 365.

$C_{15}H_{12}O_4$ Diphenylhydroxypyruvic acid, preparation, properties, semicarbazone, 2321.

$C_{15}H_{12}O_5$ Methoxydiphenyl-2,3-dicarboxylic acid, preparation, properties, dimethyl ester, distillation with Zn dust, 1584.

$C_{15}H_{14}O$ Cinnamyl phenyl ether, synthesis, mechanism of Claissen rearrangement in, 1965.

$C_{15}H_{14}O_3$ 1) γ-(2-Methoxy-1-naphthyl)-butyrolactone, preparation, properties, 2416; 2) γ-(2-methoxy-6-naphthyl)-butyrolactone, preparation, properties, 2416.

$C_{15}H_{14}O_4$ 2-Methoxy-naphthoyl-1-propionic acid, cleavage, 2380.

$C_{15}H_{16}O_3$ γ-(2-Methoxy-1-naphthyl)-butyric acid, preparation, properties, hydrolysis, 2415.

$C_{15}H_{16}O_4$ 2-Methyl-6-phenyl-Δ^3-cyclohexene-1,1-dicarboxylic acid, preparation, decarboxylation, dehydrogenation, ethyl ester, 82.

$C_{15}H_{18}O$ 1) 3-Methyl-2-phenyl-1-acetyl-Δ^4-cyclohexene, preparation, properties, semicarbazone, 84; 2) 2-methyl-6-phenyl-1-acetyl-Δ^3-cyclohexene, preparation, properties, 84.

$C_{15}H_{18}O_2$ 1) 1-(α-furyl)-9-methyldecatriene-1,3,5-one-7, preparation, properties, 1129; 2) 1-(α-furyl)-8,8-dimethylnonatriene-1,3,5-one-7, synthesis, properties, 1129.

$C_{15}H_{20}O_2$ 1) 1-(α-furyl)-undecadiene-1,3, preparation, properties, 1129; 2) keto enol, product of condensation of 1-vinyl-Δ^1-cyclohexene with 1,3-dimethyl-Δ^1-cyclopentene-4,5-dione, 567.

$C_{15}H_{20}N_4$ Di-(2-dimethylamino-5-pyridyl)-

methane, preparation, 1232.

$C_{15}H_{22}O_2$ Product of hydrogenation of the keto enol $C_{15}H_{20}O_2$, 567.

$C_{15}H_{24}O_2$ 1) β-Methoxypropylcamphenyl ketone, preparation, properties, cleavage of methanol from, 2259; 2) β-methoxylpropyl-α-octalylketones, preparation, cleavage of methanol from, ozonation, 1359.

$C_{15}H_{26}O$ 1) Palustrol, preparation, properties, hydrogenation, dehydration, structure, 777; 2) shairol, quantitative determination of double bonds in, 191.

$C_{15}H_{26}O_2$ Shairol oxide, formation, properties, 195.

$C_{15}H_{28}O_5$ 1) Dibutyl ester of γ-ketopimelic acid, preparation, properties, 671; 2) di-isobutyl ester of γ-ketopimelic acid, preparation, properties, 671.

$C_{15}H_{28}O$ Dihydroshairol, preparation, properties, dehydration, 193.

15 III

$C_{15}H_9O_6N_5$ 6-Picrylaminoquinoline, preparation, properties, 341.

$C_{15}H_{11}O_3N$ 1-Amino-4-methoxyanthraquinone, preparation, properties, absorption spectrum, 1569.

$C_{15}H_{12}N_2S$ 2'-Amino-1,2-dihydrophenanthrothiazole-3,4, preparation, properties, derivatives, 1723.

$C_{15}H_{13}OBr$ α-Bromodibenzylketone, reaction with salts of carboxylic acids, 1348.

$C_{15}H_{13}O_2N$ 1-(α-furyl)-7-(α-pyrryl)-heptatriene-1,3,5-one-7, preparation, properties, 1129.

$C_{15}H_{14}ON_2$ 1) 1-Ethoxy-7-methylphenazine, synthesis, properties, picrate, 1696; 2) 1-ethoxy-5-methylphenazine, preparation, properties, picrate, 1696.

$C_{15}H_{14}O_2N_2$ 1) 1-Ethoxy-2-methoxyphenazine, synthesis, properties, picrate, 1696; 2) 1-methoxy-5-ethoxyphenazine, synthesis, properties, 1695; 3) 1-methoxy-7-ethoxyphenazine, synthesis, properties, picrate, 1695.

$C_{15}H_{14}O_4N_2$ 1) N-(3-nitrophenacyl)-p-anisidine, preparation, properties, coloring power, 739; 2) N-(3-nitrophenacyl)-m-anisidine, preparation, properties, coloring power, 739.

$C_{15}H_{16}ON_2$ 4-Dimethylaminobenzanilide, azo compound, 300.

$C_{15}H_{18}ON_4$ Di-(2-dimethylamino-5-pyridyl)-thioketone, preparation, properties, picrate, 1232.

$C_{15}H_{19}O_3P$ Ethyl ether of 2-phosphonemethylnaphthalene, synthesis, properties, hydrolysis, 1298.

$C_{15}H_{20}ON_2$ 1) 2-Phenyl-3-keto-6-n-amyltetrahydropyridazine, preparation, properties, 1728; 2) 2-phenyl-3-keto-6-o-isoamyltetrahydropyridazine, preparation, properties, 1728.

$C_{15}H_{20}ON_6$ N,N'-di-(2-Dimethylaminopyridyl-5)-urea, 952.

$C_{15}H_{25}O_2P$ 1) n-Butyl ester of p-tolyl phosphinous acid, preparation, properties, action of CH_3I on, 1212; 2) isobutyl ester of p-tolyl phosphinous acid, preparation, properties, 1213.

$C_{15}H_{27}O_3P$ α,α',α''-triethyltriallyl phosphite, preparation, properties, bromination, 1552.

$C_{15}H_{32}O_8P_2$ 2-Methyl-3,4-di-(diethylphosphone)-hexene-2, formation, properties, oxidation, 101.

$C_{15}H_{33}O_6P$ 1) Di-β-ethoxyisopropyl ester of β-ethoxyisopropylphosphinic acid, formation, properties, 110; 2) di-β-ethoxyisopropyl ester of butoxymethylphosphinic acid, formation, properties, 110; 3) tri-β-ethoxyisopropyl ester of phosphorous acid, preparation, action of CH_3I on, isomerization, 107.

15 IV

$C_{15}H_{12}O_2N_2S$ Sulfamide of the naphthalene series, 979.

$C_{15}H_{13}O_2N_3S$ Amino sulfamide of the naphthalene series, 979.

$C_{15}H_{13}O_3N_3S_2$ Amino sulfamide of the naphthalene series, 979.

$C_{15}H_{18}O_2N_2S$ 1) β-Piperidinoethyl ester of benzothiazole-2-carboxylic acid, preparation, properties, 1239; 2) β-piperidinoethyl ester of benzothiazole-6-carboxylic acid, preparation, properties, 1241.

$C_{15}H_{19}OPSn$ Diphenyltrimethylstannyl phosphine oxide, preparation, properties, 118.

$C_{15}H_{20}O_2N_2S$ 1) γ-Diethylamino propyl ester of benzothiazole-2-carboxylic

acid, preparation, properties, picrate, 1238; 2) γ-diethylaminopropyl ester of benzothiazole-6-carboxylic acid, preparation, properties, picrate, 1241.

Group C_{16}

16 I

$C_{16}H_{14}$ 9,10 Dimethylanthracene, formation, 331.

$C_{16}H_{18}$ 1) 1,1-Dimethyl-1,2-diphenylethane, preparation, 479; isomerization, 480. 2) 1,2-Dimethyl-2-diphenylethane, formation, 480, 481; 3) 1-isopropyl-4-benzene formation, 2252; 4) 1-phenyl-1-m-xylylethane, formation, 2252.

16 II

$C_{16}H_{10}O_2$ Diphenylbutynedione, preparation, 1314.

$C_{16}H_{14}O_2$ 1) Benzyl ester of cinnamic acid, reaction with Mg organic compounds, 2323; 2) diphenylbutynediol, oxidation, 1314.

$C_{16}H_{18}O_3$ 1) γ-(2-ethoxy-1-naphthyl)-butyrolactone, preparation, properties, 2416; 2) γ-(2-ethoxy-6-naphthyl)-butyrolactone, preparation, properties, 2417.

$C_{16}H_{18}O_4$ 1) Ethyl ester of 2-ethoxy-naphthoyl-formic acid, preparation, properties, 2382; 2) ethyl ester of 2-hydroxy naphthoyl-1-propionic acid, preparation, properties, alkylation, 2381; 3) 2-ethoxy-naphthoyl-1-propionic acid, cleavage, 2380; reduction, ethyl ester, 2413; 4) β-(2-ethoxy-6-naphthoyl)-propionic acid oxidation, reduction, ethyl ester, oxime, 2413; 5) ethyl ester of β-(2-hydroxy-6-naphthoyl)-propionic acid, preparation, properties, 2414.

$C_{16}H_{18}O_2$ 1) 1,3-diphenyl-2-methyl-propanediol-1,2, preparation, properties, 1351; 2) 1,1-dianisylethane, formation, 332.

$C_{16}H_{18}O_3$ γ-(2-ethoxy-1-naphthyl)-butyric acid, preparation, properties, hydrolysis, 2415.

$C_{16}H_{20}O_2$ Butyl-β-naphthyl acetal, preparation, 650.

$C_{16}H_{20}O_3$ 1) Ethyl ester of 2,6 dimethyl-1-acetyl-Δ^3-cyclohexene carboxylic acid, preparation, saponification, 83; 2) product of condensation of β-vinyl-octalin with maleic anhydride, 566.

$C_{16}H_{22}O_4$ Acid ester of enolic pseudoionone, preparation, 467.

$C_{16}H_{30}O_2$ 1) Tetrapropylbutynediol, preparation, properties, 292; 2) tetraisopropylbutynediol, preparation, properties, 291.

$C_{16}H_{31}N$ Nitrile of palmitic acid, preparation, 305.

$C_{16}H_{34}S_2$ Isomeric disulfides, synthesis, properties, 2160.

$C_{16}H_{35}Sn$ Tetra-n-butyl-tin, action of $BiCl_3$ on, 2075.

16 III

$C_{16}H_{11}O_6N_5$ Methyl betaine of 6-picrylaminoquinoline, preparation, properties, 341.

$C_{16}H_{12}O_4N_4$ Methyl betaine of 6-(2',4'-dinitroanilino)-quinoline, preparation, properties, 340

$C_{16}H_{14}ON_2$ 4-Phenyl-3-benzyl-5-pyrazolone, preparation, properties, 1329.

$C_{16}H_{14}O_2N_2$ 1-Amino-4-dimethylamino-anthraquinone, preparation, properties, absorption spectrum, 1567.

$C_{16}H_{15}O_4N_3$ 1) N-(3-Nitrophenacyl)-p-aminoacetanilide, preparation, properties, coloring power, 741; 2) N-(3-nitrophenacyl)-m-aminoacetanilide, preparation, properties, coloring power, 741.

$C_{16}H_{16}O_2N_2$ 1) 1,5-Diethoxyphenazine, synthesis, properties, 1697; 2) 1,7-diethoxyphenazine, synthesis, properties, picrate, 1697.

$C_{16}H_{17}O_3N_3$ 1)N-(3-Nitrophenacyl)-p-amino dimethyl aniline, preparation, properties, coloring power, 741; 2) N-(3-nitrophenacyl)-m-aminodimethyl-aniline, preparation, properties, coloring power, 742.

$C_{16}H_{33}O_2Cl$ Di-heptylchloroacetal, formation, properties, 659.

16 IV

$C_{16}H_{13}N_2IS_2$ Bis-[3-methylbenzothiazole-(2)]-monomethinecyanineiodide, synthesis, properties, absorption of light, 144.

$C_{16}H_{22}O_4P_2Sn$ Methyl ester of di-(phenylphosphone)-dimethyl-tin, preparation, properties, 117.

Group C_{17}

$C_{17}H_{14}O$ Dibenzal acetone, formation, 2323.

$C_{17}H_{14}O_2$ 1-(α-Furyl)-7-phenyl-heptatriene-1,3,5-one-7, preparation, properties, 1129.

$C_{17}H_{16}O$ 1) Di-p-tolylacetylenylcarbinol, preparation, properties, hydrogenation, 1109; 2) ethyl-9-phenanthryl carbinol, preparationy properties, 1254; 3) dimethyl-9-phenanthryl carbinol, preparation, properties, 1254.

$C_{17}H_{16}O_2$ 1-(α-Furyl)-5-(p-tolyl)-2-methylpentadiene-1,3-one-5, preparation, properties, 1129.

$C_{17}H_{12}N_2$ β-(4'-dimethylaminophenyl)-α-phenylacrylonitrile, azo compound, 301.

$C_{17}H_{20}O$ Di-p-tolylethylcarbinol, preparation, properties, 1112.

$C_{17}H_{22}O_2$ 1-(α-Furyl)-tridecatriene-1,3,5-one-7, preparation, properties, 1129.

$C_{17}H_{22}O_4$ 1) 9,11-Dimethyl-$\Delta^{4,6}$-octahydrofluorene 1,2-dicarboxylic acid, preparation, anhydride, methyl ester, 917; 2) β-(1-propoxy-5,6,7,8-tetrahydronaphthoyl-4)-propionic acid, preparation, properties, methyl ester, 1217.

$C_{17}H_{22}O_5$ 1) 7-Keto-13-methyldodecahydrophenanthrene-1,2-dicarboxylic acid, preparation, properties, semicarbazone, 695; 2) 9,11-dimethyl-7-ketodecahydrofluorene-1,2-dicarboxylic acid, properties, anhydride, ethyl ester, 704.

$C_{17}H_{22}N_2$ 4,4'-bis-dimethylaminodiphenylmethane-azo compound, 301.

$C_{17}H_{26}O$ 1-Heptoxytetralin, preparation, condensation with succinic anhydride, 1219.

$C_{17}H_{30}O_5$ Di-isoamyl ester of γ-ketopimelic acid, preparation, properties, 671.

$C_{17}H_{15}O_3N$ Ethyl ester of (5-acetaminonaphthyl-1)-propiolic acid, preparation, properties, 1546.

$C_{17}H_{15}NS$ 3-Methyl-4,5-diphenyl-2-methylenebenzothiazolene, preparation, properties, reaction with methyl and ethyl iodides, 157.

$C_{17}H_{17}O_3N$ Ethyl ester of β-(5-acetaminonaphthyl-1)-acrylic acid, 1077.

$C_{17}H_{18}O_4N_2$ β-Dimethylaminoethyl ester of β-(5-nitronaphthyl-1)-acrylic acid, hydrochloride, preparation, properties, reduction, 1077.

$C_{17}H_{20}ON_2$ 4,4'-bis-dimethylaminobenzophenone, azo compound, 301.

$C_{17}H_{20}O_2N_2$ β-Dimethylaminoethyl ester of β-(5-aminonaphthyl-1)-acrylic acid, hydrochloride, 1077.

$C_{17}H_{21}O_2N$ Cocculin, isolation, properties, salts, methylation, structure, 391; 1577.

$C_{17}H_{21}O_2N_3$ 2-Nitro-4,4'-bis-dimethylaminodiphenylmethane, azo compound, 301.

$C_{17}H_{15}O_3N_3S$ Aminosulfamid of the naphthalene series, 977.

$C_{17}H_{16}O_2N_2S$ Methyl betaine of 6-(p-toluene-sulfamino)-quinoline, preparation, properties, 342.

$C_{18}H_{12}$ Naphthacene, preparation, 547; chlorination, 1771.

$C_{18}H_{24}$ Dibutylnaphthalene, formation, 480.

$C_{18}H_{10}O_4$ 1) Ethyne diphthalide, conversion to hydroxy naphthacenequinone and naphthacene, 549; 2) bis-diketohydrindene, conversion to naphthacene, 547; 3) dihydroxynaphthacenequinone, preparation, 548.

$C_{18}H_{12}Cl_2$ Dichloronaphthacene, preparation, structure, action of maleic anhydride on, 1771.

$C_{18}H_{15}Bi$ Triphenyl bismuth, reaction with thiophenols, 2167.

$C_{18}H_{16}O_2$ 1) 1-(α-Furyl)-7-phenyl-2-methyl-heptatriene 1,3,6-one-5, preparation, properties, 1128; 2) 1-(α-furyl)-7-(p-tolyl)-heptatriene-1,3,6-one-5, preparation, properties, 1128.

$C_{18}H_{16}O_3$ 1,2-Di-(p-hydroxyphenyl)-3-

methyl-$\Delta^{1,2}$-cyclopenten-5-one, preparation, properties, reduction, oxime, 1496.

$C_{18}H_{18}O$ 1) n-Propyl-9-phenanthrylcarbinol, preparation, properties, 1254; 2) isopropyl-9-phenanthrylcarbinol, preparation, properties, 1255; 3) methylethyl-9-phenanthrylcarbinol, preparation, properties, 1254.

$C_{18}H_{18}O_2$ 1) 2-Methyl-5,5-diphenylpentandione-3,4, preparation, properties, derivatives, oxidation, 2310; 2) 2,2-dimethyl-5,5-diphenyltetrahydrofuranone-3, preparation, properties, semicarbazone, 2309, 2312; 3) asymmetrical dimethyldiphenylbutindiol (2-methyl-5,5-diphenylpentin-3-diol-2,5), isomerization, 2309; condensation with ethyl alcohol, 2317.

$C_{18}H_{18}N_4$ N-(1-Naphthyl-4-azobenzene)-ethylenediamine, synthesis, 2367; use for the determination of penicillin, 2373.

$C_{18}H_{20}O_2$ 1) Dimers of anol, formation, estrogenic activity, 2279; 2) Δ^4-3,5-(p,p-hydroxyphenyl)-4-methylpentene (isoanol), preparation, properties, derivatives, 2283; 3) 6,4'-dihydroxy-2-methyl-3-ethyl-1-phenylindane, preparation, properties, estrogenic activity, 2284.

$C_{18}H_{20}O_4$ 2-Methyl-5,5-diphenylpentandiol-2,5-one-3,4, preparation, properties, dehydration, 2318.

$C_{18}H_{22}O_3$ 1) Ethyl ester of 2-methyl-6-phenyl-1-acetyl-Δ^3-cyclohexene-1-carboxylic acid, preparation, properties, saponification, 83; 2) ethyl ester of 3-methyl-2-phenyl-1-acetyl-Δ^4-cyclohexenecarboxylic acid, preparation, properties, saponification, 83.

$C_{18}H_{22}N_4$ 4-Dimethylamino benzaldazine, azo compounds, 299.

$C_{18}H_{22}O_4$ β-(1-Butoxy-5,6,7,8-tetrahydronaphthoyl-4)-propionic acid, preparation, properties, methyl ester, 1218.

$C_{18}H_{28}O_2$ 1-(α-Furyl)-tetradecadiene-1,3-one-3, preparation, properties, 1129.

$C_{18}H_{30}O_2$ p-Tetratolylbutinediol, synthesis, oxidation, 1315.

$C_{18}H_{34}O_2$ 1) Oleic acid, condensation with formaldehyde, 1517; 2) petroselinic acid, existence in coriander oil, structure, 641.

$C_{18}H_{38}S_2$ Isomeric disulfides, synthesis, properties, 2159.

18 III

$C_{18}H_8O_2Cl_2$ Dichloronaphthacenequinone, structure, 551.

$C_{18}H_9O_2Cl$ Chloronaphthacene-quinone, structure, 551.

$C_{18}H_4O_2Hg_2$ Product of mercuration of resorcinol, 2174.

$C_{18}H_{15}O_4N$ 5-Keto-2-phenyl-4-(2',5'-dimethoxybenzylidene)-4,5-dihydrooxanol, synthesis, properties, conversion to d,l-2,5-dihydroxyphenylalanine, 386.

$C_{18}H_{15}S_3Bi$ Bismuth thiophenolate, preparation, properties, 2168.

$C_{18}H_{23}O_2N$ Cocculidine, isolation, properties, salts, structure, 391, 1577.

$C_{18}H_{25}O_5N$ Renardin, isolation, properties, structure, 1989.

$C_{18}H_{33}O_3P$ α,α',α"-Tripropyl-triallyl phosphite, properties, 1553.

$C_{18}H_{34}O_2S$ Dibutoxypentenylthio ether, formation, properties, 889.

$C_{18}H_{34}O_6P_2$ Dimer of 2-methyl-4-diethylphosphonebutadiene-2,3, 102.

$C_{18}H_{39}O_6P$ Tri-β-isopropoxyisopropylphosphite, preparation, properties, 109.

18 IV

$C_{18}H_{11}OCl_3Hg_2$ Product of mercuration of 2,4,6-trichlorophenol, 2173.

$C_{18}H_{11}OCl_2Hg_2$ Product of mercuration of 2,4-dichlorophenol, 2173.

$C_{18}H_{12}O_5N_2Hg_2$ Product of reaction of diphenyl mercury with 2,4-dinitrophenol, 2173.

$C_{18}H_{13}O_3NHg_2$ Product of reaction of phenyl mercury acetate with p-nitrophenol, 2174.

$C_{18}H_{15}O_2BrHg$ Product of reaction of diphenyl mercury with bromohydroquinone, 2172.

$C_{18}H_{17}N_2IS_2$ Bis-[3-methyl benzothiazole-(2)]-8-methylmonomethinecyanine iodide, synthesis, properties, absorption of light, 144.

$C_{18}H_{25}OPSn$ Diphenyltriethylstannylphosphine oxide, preparation, properties, 118.

Group C_{19}

19 II

$C_{19}H_{18}O_2$ 1-(α-Furyl)-9-phenylnonatetraene-1,3,5,8-one-7, preparation, properties, 1129.

$C_{19}H_{18}O_3$ Product of demethylation of 1,2-di-(p-methoxyphenyl)-3-methyl-$\Delta^{1,2}$-cyclopentene-5-one, 1497.

$C_{19}H_{22}O_2$ 2,2,3-Trimethyl-5,5-diphenyltetrahydrofuranol-3, preparation, properties, oxidation, 2312.

$C_{19}H_{24}O_3$ Ethyl ester of 2,5-dimethyl-1-phenylacetyl-Δ^3-cyclohexene-1-carboxylic acid, preparation, properties, 974.

$C_{19}H_{26}O_2$ Ketoenol, product of condensation of 1-vinyl-Δ'-octalin with 1,3-dimethyl-Δ'-cyclopentene-4,5-dione, 568.

$C_{19}H_{28}O$ Tetracyclic ketone of steroid type, synthesis, properties, derivatives, 565.

$C_{19}H_{28}O_2$ Ketoenol, product of hydrogenation of ketoenol $C_{19}H_{26}O_2$, 568.

$C_{17}H_{30}O$ Tetracyclic ketones, products of hydrogenation of ketones $C_{19}H_{28}O$, 565.

$C_{19}H_{34}O_4$ Keto-aldo acid, product of ozonation of the acid $C_{21}H_{38}O_4$, 1526.

$C_{19}H_{36}O_4$ Keto-oxy acid, product of ozonation of the acid $C_{21}H_{38}O_4$, 1526.

19 III

$C_{19}H_{14}ON_4$ NN'-Diquinolyl-6-urea, preparation, properties, hydrogenation, 960.

$C_{19}H_{14}O_2N_2$ Dibenzoyl-2-amino pyridine, formation, properties, 201.

$C_{19}H_{15}O_5N$ 5-Keto-2-phenyl-4-(2'-acetoxy-5'-methoxybenzylidene)-4,5-dihydro oxazole, synthesis, properties, conversion to d,l-2,5-dihydroxyphenylalanine, 386.

$C_{19}H_{16}OHg_2$ Products of mercuration of cresols, 2174, 2175.

$C_{19}H_{16}O_3N_2$ Derivatives of pyridonimine, product of condensation of benzoyl chloride with 2-aminopyridine, 199.

$C_{19}H_{20}O_4N_2$ β-Diethylaminoethyl ester of (5-nitronaphthyl-1)-propionic acid, hydrochloride, citrate, preparation, properties, 1546.

$C_{19}H_{22}ON_4$ NN'-di-(1,2,3,4-tetrahydroquinolyl-6)-urea, preparation, properties, 959.

$C_{19}H_{22}O_4N_2$ β-Diethylaminoethyl ester of β(5-nitronaphthyl-1) acrylic acid, hydrochloride, preparation, properties, reduction, 1078.

$C_{19}H_{23}ON$ Des-N-dimethylcocculidin, preparation, properties, hydrochloride, methiodide, action of KOH and AgOH on, 1583.

$C_{19}H_{23}O_3N_3$ γ Dimethylamino-α-methylpropylamide of β-(5-nitronaphthyl-1)-acrylic acid, preparation, properties, reduction, 1080.

$C_{19}H_{24}O_2N_2$ β-Diethylaminoethyl ester of β-(5-aminonaphthyl-1)-acrylic acid, hydrochloride, 1078.

$C_{19}H_{25}ON_3$ γ-Dimethylamino-α-methylpropylamide of β-(5-aminonaphthyl-1)-acrylic acid, citrate, 1080.

$C_{19}H_{25}O_2N$ Des-N-methyl cocculidin, preparation, properties, action of AgOH on, methiodide, action of AgOH and KOH on methiodide, 1582.

$C_{19}H_{26}ON_2$ Benzyl-isoammodendrin, preparation, properties, hydrochloride, 1786.

$C_{19}H_{26}O_2N_2$ β-Diethylaminoethyl ester of β-(5-aminonaphthyl-1)-propionic acid, hydrochloride, 1081.

$C_{19}H_{27}O_7N$ Othosenine, isolation, 1993.

19 IV

$C_{19}H_{16}NIS$ Methyliodide of 2-β-tetralylmethylbenzothiazoline, synthesis, properties, 147.

$C_{19}H_{18}N_3BrS_2$ Product of reaction of 3-methyl-2-methylenebenzthiazoline with cyanogen bromide, 1977.

$C_{19}H_{21}N_2IS_2$ Product of the action of methyl iodide on 3-methyl-2-methylenebenzothiazoline, preparation, hydrolysis, 154.

19 V

$C_{19}H_{14}ONFS_2$ 2-(3'-Ethyl-6'-fluorobenzthiazolinylidene-2'-ethylidene)-3-oxo-2,3-dihydrothionaphthene, preparation, properties, absorption maximum, 2192.

$C_{19}H_{16}O_4NClS$ 3-Phenyl-4-methyl-α-naphtho-1,4-thiazine perchlorate, preparation, 1976.

$C_{19}H_{17}N_2IF_2S_2$ Biz-3-Ethyl-6-fluorobenzthiazole-(2)-methincyanine iodide, preparation, properties, absorption maximum, 2192.

$C_{18}H_{18}N_2IFS_2$ 3-Ethyl-6-fluorobenzthiazole-(2)-3-ethylbenzthiazole-(2)-methincyanine iodide, preparation, properties, absorption maximum, 2192.

$C_{18}H_{20}N_2IFS$ Iodoethylate of 2-p-dimethylaminostyryl-6-fluorobenzthiazole, preparation, properties, 2192.

Group C_{20}

20 I

$C_{20}H_{18}$ Di-benzylbenzene, formation, 2251.

20 II

$C_{20}H_{14}Hg$ α-Dinapthyl mercury, photo reaction, 585.

$C_{20}H_{16}O_2$ Product of the acid transformation of 3-methoxyfuchsone, preparation, properties, acetyl derivative, 575.

$C_{20}H_{18}O$ Products of condensation of benzyl alcohol with phenol, 2239.

$C_{20}H_{18}O_2$ 5,6-di-(p-Methoxyphenyl)-1,5 hexadiene-3-yne, preparation, hydrogenation, hydration and cyclization, 1494.

$C_{20}H_{20}O_3$ 1,2-di-(p-Methoxyphenyl)-3-methyl-$\Delta^{1,2}$-cyclopentene-5-one, preparation, properties, transformations, oxime, 1496.

$C_{20}H_{22}O_2$ 1) Dimethyl-di-p-tolylbutynediol, preparation, properties, modifications, 1933; 2) 2,2-dimethyl-5,5-diphenyl-3-ethoxydihydrofuran-2,5, preparation, properties, oxidation, 2317.

$C_{20}H_{22}O_3$ 1,2-di-(p-Methoxyphenyl)-3-methylcyclopentane-5-one, preparation, properties, oxime, 1496.

$C_{20}H_{24}O_2$ 1) Methyl ester of isoanol, 2284; 2) methyl ester of polyanol, 2283; 3) metanethol, preparation, demethylation, 2284.

$C_{20}H_{26}O_2$ 1) Dimethyl-di-p-tolylbutinediol, preparation, properties, 1938; 2) 5,6-di-(p-methoxyphenyl)-hexane, preparation, demethylation, 1495; 3) tetracyclic diketone, preparation, properties, 920.

$C_{20}H_{26}O_4$ Diethyl ester of 2,5-dimethyl-6-phenyl-Δ^3-cyclohexene-1,1-dicarboxylic acid, preparation, properties, 974.

$C_{20}H_{26}O_8$ Product of autoxidation of resin acids, 1271.

$C_{20}H_{28}O$ Tetracyclic steroid ketone, preparation, properties, 2,4-dinitro phenyl hydrazone, hydrogenation, 919.

$C_{20}H_{28}O_2$ 1) 1-(α-Furyl)-hexadecatriene-1,3,5-one-7, preparation, properties, 1129; 2) isomeric 15-methylandrostene-3,17 -dione with the methylcyclopentane ring B, synthesis, properties, 697; 3) stereoisomer of $\Delta^{8,9}$-15-methylandrostene-3,17-dione, synthesis, properties, 685.

$C_{20}H_{28}O_4$ β(Hexoxy-5,6,7,8-tetrahydronaphthoyl-4)-propionic acid, preparation, properties, 1220.

$C_{20}H_{30}O$ Tetracyclic steroid ketone, preparation, properties, reduction, 2,4-dinitrophenyl hydrazone, 919.

$C_{20}H_{30}O_2$ 1) Glycol, product of condensation of mesityl oxide with acetylene, 292; 2) abietic acid, mechanism of autoxidation, 1271.

$C_{20}H_{30}O_8$ Product of autoxidation of resin acids, 1271.

$C_{20}H_{42}S_2$ Isomeric disulfides, synthesis, properties, 2160.

20 III

$C_{20}H_{14}O_2N_2$ 1-Amino-4-phenylaminoanthraquinone, preparation, properties, absorption spectrum, 1567.

$C_{20}H_{15}O_6N$ 5-Keto-2-phenyl-4-(2',5'-diacetoxybenzylidene)-4,5-dihydroxazole, synthesis, properties, conversion to 2,5-dioxyphenyl alanine, 385.

$C_{20}H_{15}O_3N$ Thalmin, isolation, properties, derivatives, 1200.

$C_{20}H_{24}O_4N_2$ γ-Diethylaminopropyl ester of β-(5-nitronaphthyl-1) acrylic acid, chlorohydrate, preparation, properties, reduction, 1079.

$C_{20}H_{25}O_4N$ Thalicmidin, isolation, properties, derivatives, 1204.

$C_{20}H_{26}O_2N_2$ γ-Diethylaminopropyl ester of β-(5-amino naphthyl-1) acrylic acid, hydrochloride, 1079.

$C_{20}H_{34}O_6P_2$ Ether of 5,8-diphosphonemethyl-1,2,3,4-tetrahydronaphthalene, preparation, properties, hydrolysis, 1298.

20 IV

$C_{20}H_{16}O_4N_2S_2$ Sulfamide of the naphthalene series, 978.

$C_{20}H_{17}O_4N_3S_2$ Aminosulfamide of the naphthalene series, 977.

$C_{20}H_{21}O_4N_3S$ β-Diethylaminoethyl ester of 2-(p-nitrophenyl-)-benzthiazole-6-carboxylic acid, preparation, properties, 1877.

$C_{20}H_{22}O_2N_2S$ β-Diethylaminoethyl ester of 2-phenylbenzthiazole-6-carboxylic acid, preparation, properties, picrate, 1874.

$C_{20}H_{23}O_2N_3S$ β-Diethylaminoethyl ester of 2-(p-aminophenyl)-benzthiazole-6-carboxylic acid, preparation, properties, hydrochloride, 1878.

$C_{20}H_{23}N_2IS_2$ 1) Product of reaction of 3-methyl-2-methylenebenzthiazolene with ethyl iodide, preparation, hydrolysis, 155; 2) product of reaction of 3-ethyl-2-methylenebenzthiazolene with methyl iodide, preparation, hydrolysis, 156.

$C_{20}H_{30}O_4P_3Sn$ Ethyl ester of diphenylphosphone-diethyl tin, preparation, properties, 117.

$C_{20}H_{37}O_2PSn$ Ethyl ester of phenylphosphone-tri-n-butyl tin, preparation, properties, 116.

20 V

$C_{20}H_{21}ON_2ClS_2$ Product of reaction of 3-methyl- 2 -methylenebenzothiazolene with acetyl chloride, 1976.

$C_{20}H_{23}O_4N_2ClS$ 1) Ethyl perchlorate of 2-(p-dimethylamino-α-methyl styryl)-benzothiazole, synthesis, absorption spectrum, 543; 2) ethyl perchlorate of 2-(p-dimethylamino-α-methyl styryl)-benzothiazole, synthesis, absorption spectrum, 543.

Group C_{21}

21 I

$C_{21}H_{20}$ Dibenzyltoluene, formation, 2251.

$C_{21}H_{38}$ 1,1,3-Tricyclohexylpropane, preparation, properties, 2327.

21 II

$C_{21}H_{16}O_4$ Cinnamylidene-cinnamal malonate, preparation, properties, 629.

$C_{21}H_{18}O_4$ Product of the acid transformation of 3,3'-dimethoxybenzaurin, 576.

$C_{21}H_{22}O$ 1) 2,3-Diphenyl-6,6-dimethylheptadiene-1,3-one-5, preparation, properties, oxidation, semicarbazone, 95; 2) 3,3'-diphenyl-6,6-dimethylheptyne-4-one-2, formation, properties, semicarbazone, oxidation, 92.

$C_{21}H_{24}O_2$ 1) Methyl-diphenyl-tert-butylacetylenyl-ethylene glycol (2,3-diphenyl-6,6-dimethyl-heptyl-4-diol-2,3), synthesis, transformation by sulfuric acid, 87; 2) 2,3-diphenyl-6,6-dimethyl-heptene-3-ol-2-one-5, formation, properties, oxidation, dehydration, 93.

$C_{21}H_{30}O_4$ 1-Heptoxy-5,6,7,8-tetrahydronaphthoyl-4-propionic acid, preparation, properties, 1220.

$C_{21}H_{38}O_3$ Unsaturated acid, product of the action of alkali on the substance $C_{21}H_{39}O_3Cl$, preparation, properties, structure, 1523.

$C_{21}H_{38}O_4$ Ketoacid, product of oxidation of the substance $C_{21}H_{40}O_4$, preparation, properties, derivatives, structure, 1521.

$C_{21}H_{40}O_4$ Product of condensation of oleic acid with formaldehyde, preparation, transformations, structure, 1520.

$C_{21}H_{42}O$ n-Didecyl ketone, condensation with acetylene, 292.

21 III

$C_{21}H_{12}O_5N_2$ 1-Benzoylamino-4-nitroanthraquinone, preparation, properties, absorption spectrum, 1573.

$C_{21}H_{13}O_3N$ 1-Benzoylamino-anthraquinone, preparation, properties, absorption spectrum, 1573.

$C_{21}H_{13}O_4N$ 1-Benzoylamino-4-hydroxyanthraquinone, preparation, properties, absorption spectrum, 1573.

$C_{21}H_{14}O_2N_2$ 1-Amino-4-benzoylaminoanthraquinone, preparation, properties, absorption spectrum, 1567.

$C_{21}H_{19}ON$ 9-(Dimethylaminophenyl)-xanthene, azo compound, 300.

$C_{21}H_{25}O_4N$ Thalmidin, isolation, properties, derivatives, 1201.

$C_{21}H_{25}O_5N$ Thalicmine, isolation, properties, derivatives, 1197.

$C_{21}H_{39}O_3Cl$ Product of chlorination of the substance $C_{21}H_{40}O_4$, 1521.

$C_{21}H_{39}O_3P$ α,α',α"-Trivinyltriamylphosphite, preparation, properties, action of CCl_4 on, bromination, 1553.

21 IV

$C_{21}H_{21}O_4N_3S$ β-Piperidinoethyl ester of 2-(p-nitrophenyl)-benzothiazole-6-carboxylic acid, preparation, properties, 1877.

$C_{21}H_{22}O_2N_2S$ β-Piperidinoethyl ester of 2-phenylbenzothiazole-6-carboxylic acid, preparation, properties, 1875.

$C_{21}H_{23}O_2N_3S$ β-Piperidino ethyl ester of 2-(p-aminophenyl)-benzthiazole-6-carboxylic acid, preparation, properties, 1878.

$C_{21}H_{23}O_4N_3S$ γ-Diethylaminopropyl ester of 2-(p-nitrophenyl)-benzthiazole-6-carboxylic acid, preparation, properties, 1877.

$C_{21}H_{24}O_2N_2S$ γ-Diethylaminopropyl ester of 2-phenylbenzthiazole-6-carboxylic acid, preparation, properties, picrate, 1875.

$C_{21}H_{25}O_2N_3S$ γ-Diethylaminopropyl ester of 2-(p-aminophenyl)-benzothiazole-6-carboxylic acid, preparation, properties, picrate, 1878.

21 V

$C_{21}H_{19}N_2IF_2S_2$ Bis-3-ethyl-6-fluorobenzthiazole-(2)-trimethinecyanine iodide, preparation, properties, absorption maximum, 2191.

$C_{21}H_{26}N_2IFS$ 3-Ethyl-6-fluorobenzthiazole-(2)-1-ethylquinoline-(2)-methinecyanine iodide, preparation, properties, absorption maximum, 2192.

$C_{21}H_{23}ON_2ClS_2$ Product of reaction of 3-methyl-2-methylene benzothiazolene with chloroacetone, 1974.

$C_{21}H_{25}O_4N_2ClS$ Ethyl perchlorate of 2-(p-dimethylamino-β-ethylstyryl)-benzothiazole, synthesis, absorption spectrum, 543.

Group 22

22 II

$C_{22}H_{46}S_2$ Isomeric disulfides, synthesis, properties, 2160.

22 III

$C_{22}H_{15}O_4N$ 1-Benzoyl amino-4-methoxyanthraquinone, properties, absorption spectrum, 1573.

$C_{22}H_{18}ON_2$ 1,4-Diphenyl-3-benzyl-5-pyrazolone, preparation, 1328.

$C_{22}H_{29}O_3N_3$ δ-Diethylamino-α-methylbutylamide of β-(5-nitronaphthyl-1)-acrylic acid, preparation, properties, reduction, 1081.

$C_{22}H_{31}ON_3$ δ-Diethylamino-α-methylbutylamide of β-(5-aminonaphthyl-1)-acrylic acid, citrate, 1081.

22 IV

$C_{22}H_{18}O_4N_2S$ 1) 3-(β-anthraquinonesulfamino)-N,N-dimethylaniline, preparation, properties, 1868; 2) 4-(β-anthraquinone sulfamino)-N,N'-dimethylaniline, preparation, properties, 1867.

$C_{22}H_{19}O_5N_3S_2$ Aminosulfamide of the naphthalene series, 977.

$C_{22}H_{34}O_4P_2Sn$ Ethyl ester of di-(phenylphosphone)-di-n-propyl tin, preparation, properties, 118.

22 V

$C_{22}H_{21}N_2IF_2S_2$ Bis-3-ethyl-6-fluorobenzothiazole-(2)-8-methyltrimethinecyanine iodide, preparation, properties, absorption maximum, 2191.

$C_{23}H_{23}N_2IF_2S_2$ Bis-3-ethyl-6-fluorobenzothiazole-(2)-8-ethyltrimethinecyanine iodide, preparation, properties, absorption maximum, 2191.

$C_{22}H_{25}O_2N_2IS_2$ Product of reaction of 3-methyl-2-methylenebenzothiazolene with the ethyl ester of iodoacetic acid, 1978.

Group C_{23}

23 II

$C_{23}H_{26}N_2$ 4,4'-Bis-dimethylaminotriphenylmethane, azo compounds, 300.

23 III

$C_{23}H_{18}O_3N_2$ 1-Benzoylamino-4-dimethyl-

aminoanthraquinone, preparation, properties, absorption spectrum, 1573.

$C_{23}H_{19}O_2N$ α-(1-Methyl-3-phenyl-2-indolyl)-phenylacetic acid, preparation, properties, thermal decarboxylation, 1332.

$C_{23}H_{25}O_2N_3$ 1) 2"-nitro-4,4'-bis-dimethylaminotriphenylmethane, azo compound, 300; 2) 3"-nitro-4,4'-bis-dimethylaminotriphenylmethane, azo compound, 300; 3) 4"-nitro-4,4'-bis-dimethylaminotriphenylmethane, azo compound, 300.

$C_{23}H_{26}ON_2$ 4,4'-bis-dimethylaminotriphenyl carbinol, azo compound, 300.

$C_{23}H_{48}O_6P_2$ 2-Methyl-3,4-di-(dibutyl phosphone)-hexene 2, formation, 103.

23 IV

$C_{23}H_{14}O_4N_2S$ 6-(β-Anthraquinone-sulfamino)-quinoline, preparation, properties, 1868.

$C_{23}H_{19}O_8NS$ Methyl-p-toluene-sulfonate of 6-picrylaminoquinoline, preparation, properties, action of alkalies on, 341.

$C_{23}H_{20}O_4N_2S$ 1) Methyl betaine of 3-(β-anthraquinonesulfamino)-N,N-dimethyl aniline, preparation, properties, 1867; 2) methyl betaine of 4-(β-anthraquinonesulfamino)-N,N-dimethylaniline, preparation, properties, 1868.

$C_{23}H_{20}O_7N_4S$ Methyl-p-toluene sulfonate of 6-(2',4'-dinitroanilino)-quinoline, preparation, properties, reaction with NaOH, 340.

23 V

$C_{23}H_{21}N_2IF_2S_2$ bis-3-Ethyl-6-fluorobenzthiazole-(2)-pentamethincyanine iodide, preparation, properties, absorption maximum, 2191.

$C_{23}H_{22}N_2IFS$ 3-Ethyl-6-fluorobenzthiazole-(2)-1-ethylquinoline-(2)-trimethincyanine iodide, properties, absorption maximum, 2192.

Group C_{24}

24 II

$C_{24}H_{20}N_2$ Quinoxaline, product of reaction of 2-methyl-5,5-diphenylpentandiol-2,5-one-3,4 with o-phenylenediamine, 2320.

$C_{24}H_{20}Pb$ Tetraphenyl lead, reaction with thiophenols, 2167.

$C_{24}H_{20}Sn$ Tetraphenyl tin, reaction with thiophenols, 2167.

$C_{24}H_{46}O_2$ Tetra-amylbutynediol, preparation, properties, 292.

24 III

$C_{24}H_{15}O_4N$ Methyl ester of N-phenyl-1(N), 9-anthrapyridone-2-carboxylic acid, preparation, absorption spectrum, 2307.

24 IV

$C_{24}H_{16}O_4N_2S$ Methylbetaine of 6-(β-anthraquinonesulfamino)-quinoline, preparation, properties, 1868.

$C_{24}H_{24}O_5N_2S_2$ Methyl-p-toluene sulfonate of 6-(p-toluene sulfamino)-quinoline, preparation, properties, action of ammonia on, 342.

24 V

$C_{24}H_{23}O_4N_2ClS$ Phenyl perchlorate of 2-(p-dimethylamino-α-methyl-styryl)-benzthiazole, synthesis, absorption spectrum, 544.

Group C_{25}

25 III

$C_{25}H_{23}O_2N$ Ethyl ester of α-(1-methyl-3-phenyl-2-indolyl)-phenylacetic acid, preparation, properties, 1380.

$C_{25}H_{26}O_2N_2$ Methylphenylhydrazone of α,δ-diphenylacetoacetic ester, preparation, properties, reduction, 1328.

25 IV

$C_{25}H_{21}N_2IS_2$ [3-Ethylbenzothiazole-(2)]-[3-phenylbenzothiazole-(2)-]-trimethinecyanine iodide, synthesis, properties, absorption of light, 144.

25 V

$C_{25}H_{23}ON_2IS_2$ Product of reaction of 3-methyl-2-methylenebenzothiazoline with benzoyl chloride, 1977.

$C_{25}H_{23}N_2IF_2S_2$ bis-3-Ethyl-6-fluoro-benzthiazole-(2)-heptamethincyanine

iodide, preparation, properties, absorption maximum, 2191.
$C_{25}H_{24}O_4N_2Cl_2S$ Ethyl perchlorate of 2-(p-dimethylamino-β-phenylstyryl)-benzthiazole, synthesis, absorption spectrum, 544.

Group C_{26}

26 III

$C_{26}H_{19}O_2N$ 1) 9-Ethylanilidonaphthacenequinone-11,12, preparation, properties, 558; 2) 9-monoethylanilidonaphthacenequinone-11,12, preparation, 1778.

26 IV

$C_{26}H_{23}N_2IS_2$ 1) [3-Ethylbenzothiazole-(2)]-[3-phenylbenzothiazole-(2)]-8-methyltrimethincyanine iodide, synthesis, properties, absorption of light, 145; 2) [3-ethylbenzothiazole-(2)]-[3-phenylbenzothiazole-(2)]-10-methyltrimethincyanine iodide, synthesis, properties, absorption of light, 145.
$C_{26}H_{26}O_2P_2Sn$ Product of reaction of the ethyl ester of diphenylphosphinous acid with dimethyldiiodotin, 119.

26 V

$C_{26}H_{25}ON_2BrS_2$ Product of reaction of 3-methyl-2-methylenebenzothiazoline, with ω-bromoacetophenone, 1975.

Group C_{27}

27 II

$C_{27}H_{24}O$ 1,1,3,3—Tetraphenylpropyl alcohol, preparation, hydrogenation, 2327.
$C_{27}H_{24}N_2$ Diphenylamineacrolein, synthesis, properties, 497.

27 III

$C_{27}H_{18}O_3N_2$ 1-Benzoylamino-4-phenylaminoanthraquinone, preparation, properties, absorption spectrum, 1573.

27 IV

$C_{27}H_{19}N_2IS_2$ bis-[3-Phenylbenzothiazole-(2)]-monomethinecyanine iodide, absorption of light, 144.
$C_{27}H_{25}N_2IS_2$ Product of reaction of 3-methyl-2-methylene-α-naphthothiazoline with methyl iodide, preparation, hydrolysis, 156.

Group C_{28}

28 II

$C_{28}H_{22}O_2$ Tetraphenylbutinediol, oxidation, 1314.
$C_{28}H_{28}Si$ Tetrabenzyl silicon, action of $BiCl_3$ on, 2076.

28 III

$C_{28}H_{18}O_4N_2$ 1,4-Dibenzoylaminoanthraquinone, preparation, properties, absorption spectrum, 1573.

28 IV

$C_{28}H_{21}N_2IS_2$ bis-[3-Phenylbenzothiazole-(2)]-8-methylmonomethinecyanine iodide, synthesis, properties, absorption of light, 144.
$C_{28}H_{27}N_2IS_2$ Product of reaction of 3-methyl-2-methylene-α-naphthothiazoline with ethyl iodide, preparation, properties, 157.
$C_{28}H_{30}O_2P_2Sn$ Product of action of the ethyl ester of diphenylphosphinous acid on diethyldiiodo tin, 119.

Group C_{29}

29 IV

$C_{29}H_{21}N_2IS_2$ Dyestuff, preparation, absorption of light, 145.
$C_{29}H_{23}N_2IS_2$ bis-[3-Phenylbenzthiazole-(2)]-8-ethylmonomethinecyanine iodide, synthesis, properties, absorption of light, 145.
$C_{29}H_{24}O_4N_2S$ p-Dimethylamino-N-benzylanilide of β-anthraquinonesulfonic acid, preparation, properties, 1868.

29 V

$C_{29}H_{25}O_4N_2ClS$ Phenyl perchlorate of 2-(p-dimethylamino-α-phenyl styryl)-benzthiazole, synthesis, absorption spectrum, 545.

$C_{29}H_{27}ON_2IS_2$ Product of reaction of 3-methyl-2-methylene-α-naphthothiazoline with iodoacetone, 1975.

Group C_{30}

30 II

$C_{30}H_{22}O$ α-Phenanthrylethylphenanthrylic ether, formation, 1253.

$C_{30}H_{26}O_2$ Symmetrical diphenyl-p-ditolylbutinediol, synthesis, oxidation, 1317.

30 IV

$C_{30}H_{23}N_2IS_2$ bis-[Phenylbenzthiazole-(2)]-8-methyl-trimethinecyanine iodide, synthesis, properties, absorption of light, 145.

$C_{30}H_{28}O_7N_2S_2$ 1) Methyl-p-toluenesulfonate of 3-(β-anthraquinone sulfamino)-N,N-dimethylaniline, preparation, properties, 1867; 2) methyl-p-toluene sulfonate of 4-(β-anthraquinone sulfamino)-N,N-dimethyl aniline, preparation, properties, conversion to betaine, 1867.

30 V

$C_{30}H_{28}O_2N_2IS_2$ Product of reaction of 3-methyl-2-methylene-α-naphthothiazoline with ethyl iodoacetate, 1978.

Group C_{31}

31 IV

$C_{31}H_{24}O_7N_2S_2$ Methyl-p-toluene sulfonate of 6-(β-anthraquinonesulfamino)-quinoline, synthesis, properties, 1868.

31 V

$C_{31}H_{25}O_4N_2ClS_2$ bis-[3-Methylbenzthiazole-(2)]-8,10-diphenyltrimethinecyanine perchlorate, synthesis, properties, absorption of light, 146.

Group C_{32}

32 II

$C_{32}H_{26}O_5$ Product of oxidation of tetraphenylbutinediol, 1314.

Group C_{34}

34 II

$C_{34}H_{30}O_5$ 2,5-Diphenyl-2,5-p-ditolyl-3,4-diacetyldihydrofuran, preparation, 1319.

34 III

$C_{34}H_{28}O_2N_2$ 9,10-Diethylanilidonaphthacene quinone-11,12, preparation, properties, 558.

34 V

$C_{34}H_{24}O_{16}N_6S_4Na_4$ Direct pure blue dyestuff, reduction with silver and sodium sulfite, 1847.

$C_{34}H_{29}ON_2BrS_2$ Product of reaction of 3-methyl-2-methylene-α-naphthothiazoline with ω-bromoacetophenone, 1976.

Group C_{35}

35 IV

$C_{35}H_{33}N_2IS_2$ Product of reaction of 3-methyl-4,5-diphenyl-2-methylene thiazolene, with methyl iodide, preparation, hydrolysis, 159.

Group C_{36}

36 II

$C_{36}H_{34}O_5$ 2,2,5,5-Tetratolyl-3,4-diacetyldihydrofuran-3,4, preparation, 1316.

36 IV

$C_{36}H_{35}N_2IS_2$ Product of reaction of 3-methyl-4,5-diphenyl-2-methylene-thiazoline with ethyl iodide, preparation, hydrolysis, 158.

Group C_{37}

$C_{37}H_{34}O_7N_2S_2$ Methyl-p-toluene sulfonate of the p-dimethylamino-N-benzylanilide of β-anthraquinone-sulfonic acid, preparation, properties, 1868.

Group C_{38}

$C_{38}H_{46}O_7N_2$ Thalictrinin, isolation, properties, 1779.

Group C_{39}

$C_{39}H_{29}O_4N_2ClS_2$ bis-[3-Methylbenzothiazole-(2)]-8,10-α-dinaphthyltrimethinecyanine perchlorate, synthesis, properties, absorption of light, 146.

$C_{39}H_{37}O_4N_2ClS_2$ bis-[3-Methylbenzothiazole-(2)]-8,10-di-β-tetralyltrimethinecyanine perchlorate, synthesis, properties, absorption of light, 146.

Group C_{41}

$C_{41}H_{29}O_4N_2$ bis-[3-Methylbenzothiazole-(2)]-8,10-dimethyltrimethinecyanine iodide, preparation, properties, absorption of light, 145.

Group C_{44}

$C_{44}H_{86}O_2$ Tetradecylbutyne derivative, synthesis, properties, 292.

Group C_{49}

$C_{49}H_{33}O_4N_2ClS_2$ bis-[3-Phenylbenzothiazole-(2)]-8,10-di-α-naphthyltrimethine perchlorate, preparation, properties, absorption of light, 145.

$C_{49}H_{41}O_4N_2ClS_2$ bis-[3-Phenylbenzothiazole-(2)]-8,10-di-β-tetralyltrimethinecyanine perchlorate, preparation, properties, absorption of light, 145.

Group C_{71}

$C_{71}H_{104}O_{21}$ Polymers of α-ketooxide, 2272.